FINAL

MATERIEL FIELDING PLAN

For

COMBAT SERVICE SUPPORT AUTOMATED INFORMATION SYSTEMS INTERFACE

(CAISI)

AUGUST 2002

Prepared for:
Assistant Project Manager, CAISI
PEO Enterprise Information Systems
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

LIST OF TABLES AND FIGURES

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 1

INTRODUCTION

1.1 Purpose.

a. This Materiel Fielding Plan (MFP) contains the plans, procedures, and instructions necessary to deploy, maintain, and support the Combat Service Support (CSS) Automated Information Systems Interface (CAISI).

b. This MFP fulfills the guidance described in Army Regulation (AR) 700-142, Instructions for Materiel Release, Fielding, and Transfer, dated 1 May 1995, and Department of the Army (DA) Pamphlet (PAM) 700-142, Instructions for Materiel Release, Fielding, and Transfer, dated 15 Jan 1998.

c. MFP updates will be provided as required by the Program Executive Office Enterprise Information Systems (PEO EIS) over the life cycle of the CAISI program.

d. The information contained in this MFP is the latest available, and pertains to centrally procured commercial off-the-shelf (COTS) non-developmental item (NDI) automatic data processing equipment (ADPE).

1.2 Data.

1.2.1 References.

a. Army Regulation (AR) 700-142, Materiel Release, Fielding, and Transfer, 1 May 1995.

b. Army Regulation (AR) 710-2, Inventory Management Supply Policy Below the Wholesale Level, 15 Jan 1998.

c. Department of the Army (DA) Pamphlet (PAM) 25-6, Configuration Control of Software.

d. Department of the Army (DA) Pamphlet (PAM) 700-142, Instructions for Materiel Release, Fielding, and Transfer.

e. Combat Service Support Automated Information System Interface (CAISI) System Decision Memorandum, 26 March 1997.

f. Combat Service Support Automated Information System Interface (CAISI) Mission Needs Statement, 14 July 1993.

g. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Supportability Strategy, August 2002.

h. Revised Operational Requirements Document (ORD) for Combat Service Support (CSS) Automated Information Systems Interface (CAISI), 31 October 1996.

1.2.2 Limits of Data. Data contained in this MFP is subject to change. All participating organizations will be provided updates/ revisions when published.

1.3 Agreements.

a. A separate Materiel Fielding Agreement (MFA) is coordinated with each gaining Major Army Command (MACOM) as part of the initial fielding with that MACOM.

b. These MFAs document the formalized plans, policies, responsibilities, procedures, and schedules governing the fielding of CAISI to each respective MACOM.

c. MFAs will be finalized with the commands listed in paragraph 1.4.3 below. A sample MFA is contained in Appendix 9.1 - Agreements. The CAISI MFP will become final when the MFA is signed and finalized by the applicable MACOM/Installation

d. Memoranda of Agreement (MOA) for CAISI equipment are completed after the Installation Survey (IS). Sample MOA is contained at Appendix 9.1.

1.4 Fielding and Logistic Support Concept.

1.4.1 General. The CAISI configuration will consist of Commercial Off the Shelf/Non-Developmental Items (COTS/NDI) hardware.

1.4.2 Hardware/Software Acquisition.

1.4.2.1 Hardware.

a. The objective of the CAISI Wireless hardware acquisition is to provide a common baseline of COTS/NDI equipment available throughout the Department of Defense (DoD) and General Services Administration (GSA).

b. To accomplish this objective, hardware will be procured from existing Indefinite Delivery/Indefinite Quantity (IDIQ) contracts, General Services Administration (GSA) schedule or Blanket Purchase Agreements (BPA).

c. The warranty period for all equipment will be determined by the specific procurement contract. Tobyhanna Army Depot Forward Repair Activities (FRA) will provide CAISI post-warranty maintenance.

1.4.2.2 Software. All software will be commercial off-the-shelf (COTS). Operating System is Windows 2000 and other COTS software either available free to the Government, included as part of the operating system or with hardware components and that which must be licensed. Listing of all software included with the system is shown at Tables 2.2-1, 2.2-2 and 2.2-3. The Virtual End-to-End (VEE) software developed to support the legacy STAMIS systems now resides on the Legacy Support Adapters.

1.4.3 Fielding.

1.4.3.1 Gaining Commands. The following Major Army Commands (MACOM) will receive the CAISI:

a. U.S. Army Materiel Command (AMC)

b. U.S. Army Forces Command (FORSCOM)

c. U.S. Army Training and Doctrine Command (TRADOC)

d. U.S. Army Special Operations Command (USASOC)

e. U.S. Army Intelligence and Security Command (INSCOM)

f. U.S. Army, Europe (USAREUR)

g. U.S. Army, Pacific (USARPAC)

h. U.S. Army, South (USARSO)

i. Eighth US Army (EUSA)

j. US Army National Guard (USNG)

k. US Army Reserves (USAR)

1.4.3.2 Distribution Methodology. PEO EIS will field the CAISI Wireless configuration and associated equipment. PEO EIS and supporting elements/agencies, in coordination with gaining installations, identifies and ensures the availability of all necessary items (Mobile Subscriber Equipment (MSE), STAMIS support, facilities, etc.) to conduct initial fielding and training. Fielding will serve to replace the previous Combat Service Support Mid-Term systems fielded to Active Army, portions of USNG and USAR units.

1.4.3.3 Distribution Priorities. Unit distribution priorities are developed and approved by the DA Deputy Chief of Staff for Operations (DCSOPS), in coordination with DA Deputy Chief of Staff for Logistics (DCSLOG) and the MACOM in accordance with Department of the Army Sequence Listing.

a. The U.S. Army Combined Arms Support Command (CASCOM) as the user representative in coordination with US Army Signal Center, as the combat developer (CBTDEV) provides the necessary Basis of Issue and personnel requirements information to PEO EIS. Information is then compiled and coordinated with appropriate activities and provided for processing into Total Asset Visibility (TAV) Basis of Issue Plan (BOIP) Feeder DATA (BOIPFD) and Qualitative and Quantitative Personnel Requirements Information (QQPRI).

b. The Assistant Project Manager (APM) for CAISI integrates the validated priorities with vendor manufacturing capacities and other delivery constraints to establish and support a specific fielding schedule.

1.4.4 Logistics Support Concept. The design concept for the CAISI Wireless relies on COTS/NDI equipment, minimizing the logistics support required. Logistics support, to include maintenance support, will be provided during the life cycle of the system. In addition, warranties, an integral part of the requirements contracts, are a part of the CAISI Wireless support concept.

1.4.4.1 Maintenance.

1.4.4.1.1 Hardware.

a. The CAISI maintenance support concept is based on a three level maintenance structure as outlined in paragraph 4.1.2.

b. The DA DCSLOG approved the maintenance support concept for centrally procured STAMIS automatic data processing (ADP) hardware. This support concept was implemented on 1 October 1994.

c. COTS/NDI hardware is procured with an established warranty period in accordance with the appropriate procurement contract. Warranty information is addressed in Paragraph 4.2 and Appendix 9.5 - Warranties.

1.4.4.1.2 Software.

a. Upon recognizing that the CAISI is not functioning properly, the unit operator will perform whatever diagnostics or troubleshooting procedures are authorized. If there is an indication of a software problem, the unit operator will call the CAISI support representative at the supporting CSS Automation Management Office (CSSAMO)/Personnel Automation Section (PAS)/Customer Support Office (CSO), or other designated person.

b. Table of Organization and Equipment (TOE) and deployed Table of Distribution and Allowances (TDA) organizations will receive operational support from the CSSAMO, PAS, or CSO. Installation/TDA organizations will receive operational support from the installation information management, or equivalent, office.

(1) Problems with CAISI Wireless software that cannot be resolved locally will be reported to the Fort Lee, VA Customer Assistance Office (CAO) at Defense Switch Network (DSN) 687-1051 or commercial (804) 734-1051, e-mail: cao@lee-dns2.army.mil.

(2) Modifications to the CAISI Wireless application software will be made using standard software Engineering Change Proposals, in accordance with DA Pam 25-6, Configuration Control of Software, and the CAISI CMP.

(3) Proposed system changes will be forwarded as an Engineering Change Proposal - Software (ECP-S) through appropriate command channels. All ECP-S will be reviewed, prioritized, and approved or disapproved by the CAISI Configuration Control Board (CCB).

1.4.5 Supply Support. The APM CAISI, Proponent Agency, and Applications Software Developer will coordinate supply support to ensure hardware equipment and supplies are on hand to meet implementation and subsequent operational needs. All unique items of supply and STAMIS Computer Exchange (SCX) will be provided as initial issue in conjunction with fielding. Other than expendable supplies, no CAISI Wireless items will be obtained through the Army supply system. The supply support concept incorporates the following:

a. Under the maintenance concept, the contractor/depot will provide repair parts for use on site or at their facility to make repairs. Use of contractor/depot support is expected to reduce the costs of holding an inventory of parts that become obsolete quickly because of rapid technological advancement.

b. The maintenance concept, with contractor/depot supply, is not expected to adversely affect unit readiness or manpower.

c. The maintenance and supply support concept precludes a requirement to catalog or preserve repair parts at this time. End items have been cataloged as a result of the Basis of Issue Plan (BOIP)

process. Receipt and issue of CAISI components will be in accordance with AR 710-2, Inventory Management Supply Policy Below the Wholesale Level.

1.5 Administrative Instructions.

1.5.1 Primary Point of Contact (POC).

a. The PEO EIS POC for the CAISI MFP is the Logistics Division, and can be contacted at Defense Systems Network (DSN) 656-3119, Commercial (703) 806-3119. Mailing address:

Program Executive Office
Enterprise Information Systems
ATTN: SFAE-PS-O (Ms. Sarah Robertson)
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

robertss@eis.army.mil

b. The PEO EIS POC for fielding and extensions is APM CAISI, and can be contacted at DSN 656-4769 or Commercial (703) 806- 4769. Mailing address:

Program Executive Office
Enterprise Information Systems
ATTN: SFAE-PS-I
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

jacksond@eis.army.mil

1.5.2 Changes to the MFP. Comments and/or recommended changes to this MFP should be submitted on DA Form 2028, Recommended Changes to Publications and Blank Forms. PEO EIS will publish changes and/or updates to this MFP, as required. All correspondence and/or recommended changes related to this MFP will be sent to the POC listed in Section 1.5.1. Information copies should also be provided to the following activities:

Project Office CAISI
Attn: SFAE-PS-I
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

CDR USA SIGCEN
Attn: ATZH-CDM (CPT Donald Stewart)
Fort Gordon, GA 30905

CDR USA ISEC
Attn: AMSEL-IE-IS (Mr. Brad Amon)
Fort Huachuca, AZ 85613-5300

CDR USA ATEC-AEC
Attn: CSTE-EIM-L (CPT Jim Thorne)
4501 Ford Avenue
Alexandria, VA

CDR USA Training and Doctrine Command
Attn: ATCD-SL (Mr. David Smith)
Fort Monroe, VA 23651

CDR USA Signal Center
Attn: ATZH-DTN (SSG Darryl Bennett)
Fort Gordon, GA 30905

CDR USA Combined Arms Support Command
Attn: ATCL-CSS (CPT Osvaldo Malaveo)
Fort Lee, VA 23805

1.5.3 MFP Fielding Evaluation. All gaining commands will ensure that each unit receiving the CAISI Wireless completes DA Form 5666-R, Gaining Command Fielding Evaluation.

a. This form will be forwarded to PEO EIS at the address in paragraph 1.5.1a within 30 days following the completion of the total package fielding.

b. A copy of the form is contained in Appendix 9.4 - Gaining Command Checklist.

1.5.4 Special Requirements. Any special MACOM requirements should be transmitted by priority message to the PEO EIS. An information copy of the message should be provided to the Assistant Project Manager for CAISI for the application software involved.

1.5.5 Acknowledging Receipt of MFP. Within 30 days following receipt of this MFP, each recipient should provide, by message to the address listed in paragraph 1.5.1a, the following information if changed from the current MFP distribution list:

a. Current name of point of contact, official mailing address, office symbol, e-mail address and telephone number.

b. Current message address.

c. Needed quantities of subsequent MFP updates/changes.

1.5.6 MFP Distribution.

a. This MFP is distributed directly to the MACOM, TRADOC schools, and other agencies in a single hard-copy format. Electronic copies will be provided upon request.

b. Recipients are responsible for further distribution to their major subordinate commands.

c. MACOM should ensure that the unit POC has a complete copy of this MFP at least 30 days before the Installation Survey (IS).

d. All agencies will complete those actions required in accordance with this MFP before the IS.

SECTION 2

SYSTEM DESCRIPTION

2.1 Functional and Physical Description. CAISI Wireless provides a capability to battlefield CSS automation devices to electronically exchange information via both tactical and commercial networks with other CSS automation devices (primarily other (STAMIS), as well as automation devices within the sustaining base. Most STAMIS do not possess the hardware or software capability to pass data through the Tactical Packet Network (TPN) element of Mobile Subscriber Equipment (MSE). The CAISI Wireless device provides an interface for these STAMIS devices, allowing them access to the TPN. An In-Line Network Encryption (INE) Device (currently the Motorola Network Encryption System (NES)) is collocated with the MSE Small Extension Node (SEN) to allow CAISI Wireless and those connected to it access to the SECRET HIGH TPN. A Domain Name Server(s) (DNS) is also collocated with MSE to facilitate the administration of the network. Standard Army Management Information Systems (STAMIS) and hardware systems that interface with CAISI include the following:

a. Combat Service Support Control System (CSSCS)

b. Corps/Theater Automatic Data Processing Service Center - Phase II (CTASC-II)

c. Department of the Army Movements Management System - Redesign (DAMMS-R)

d. Medical Communications for Combat Casualty Care (MC4)

e. Standard Army Ammunition System (SAAS)

f. Standard Army Maintenance System (SAMS)

g. Standard Army Retail Supply System (SARSS)

h. Army Human Resource System (AHRS)

i. Standard Property Book System - Redesign (SPBS-R)

j. Theater Army Medical Management Information System (TAMMIS)

k. Unit Level Logistics System (ULLS)

l. Global Combat Support System-Army/Tactical (GCSS-A/T)

2.1.1 Overall System Description.

a. The CAISI Wireless configuration is the result of a follow-on effort to the CAISI Mid-Term, which itself was a follow-on to the Combat Service Support – Near Term Fix (CSS-NTF). The advantage of this new configuration is the incorporation of commercial off-the-shelf (COTS) wireless technology, eliminating the need for much of the cabling and wiring required for connectivity to the Mid Term CAISI.

b. The purpose of CAISI remains to provide a capability to battlefield CSS automation devices to electronically exchange information via both tactical and commercial networks with other CSS automation devices (primarily other Standard Army Management Information

Systems (STAMIS)), as well as automation devices within the sustaining base.

c. Most STAMIS do not possess the hardware or software capability to pass data through the Tactical Packet Network (TPN) element of Mobile Subscriber Equipment (MSE). CAISI provides an interface for these STAMIS devices, allowing them access to the TPN. An In-Line Network Encryption (INE) Device (currently the Motorola Network Encryption System (NES)) is collocated with the MSE Small Extension Node (SEN) to allow CAISI and those connected to it access to the SECRET HIGH TPN. A Domain Name Server(s) (DNS) is also collocated with MSE to facilitate the administration of the network.

d. A maximum of 366 CSS users have the capability to simultaneous interface through the CAISI via direct connect (hardwired) or via wireless bridge. CAISI is capable of supporting up to 39 separate tents or shelters within a 7x7 km Brigade Support Area (BSA).

e. The CAISI objective hardware configuration provides an increased connectivity capacity as the CAISI Mid-Term with substantially fewer components. CAISI incorporates commercial off-the-shelf (COTS) wireless technology and a Federal Information Processing Standard (FIPS) 140-1 approved Triple Data Encryption Standard (3DES) security device. This new technology allows CAISI to revolutionize CSS communications in both tactical and garrison environments. Majority of the users are concentrated through hubs therefore reducing the demand for MSE ports.

Table 2.1.1-1 CAISI Wireless Components

Hardware Components
The following components make up the CAISI suite of hardware:

CAISI Wireless Nomenclature Cross Reference List

Common Name	Official Name	Part #	NSN
CAISI Bridge Module	Processor, Communications Gateway	A3269821	5895-01-487-4020
CAISI Client Module	Processor, Bridge	A3269822	5895-01-487-4023
Legacy Support Module	Interface Unit, ADP	MSS100-01	7025-01-487-4021
SSR Accessory Kit	Accessory Kit, Electronics Equipment	A3269820	5999-01-487-2681

* See Module descriptions below:

(1) CAISI Bridge Module (CBM): Each CBM provides connectivity for STAMIS users and serves as ‘relays’ for other CBMs in the network, passing data through the radios to the final destination in the network. One CBM at each field site is designated as the central, or ‘root’ node. This node controls the local area network (LAN) for that field site, sets parameters for and directs traffic amongst other radios in the network. Each CBM connects, directly or indirectly, back to the root. The root node in turn connects to the MSE Small Extension

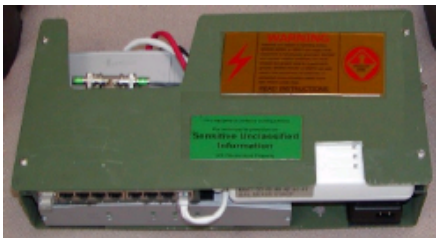
Node (SEN) or Brigade Subscriber Node (BSN) provided by the Signal unit to interconnect the various field sites.

CBM Transit Case Components:

- Wireless Bridge/Access Point
- Digital Subscriber Line (DSL) Bridge
- Inline Encryptor
- Two 8 port 10BaseT hubs
- Uninterruptible Power Supply (UPS)
- 40″ Omni-directional antenna
- 35′ and 25′ RF cables
- 7″ Panel antenna
- Power supplies and cables

(2) CAISI Client Module (CCM): The CCM is the distant-end extension for the CBM. Each CCM supports a single work center – eight workstations located in a single vehicle, tent or collection of vehicles and tents under a common camouflage net. Radio Frequency antennas and cables are provided with each CBM and CCM. There are two basic types of antennas: Directional "panel" antennas and Omni-directional "whips". These RF antennas in conjunction with the wireless bridges enable wireless LAN data communication throughout the Logistics Support Area (LSA).

CCM Carrying Case Components:



- Multi-Client Radio Adapter
- Inline Encryptor
- One 8-port 10Base T hub
- 24" Omni-directional antenna
- 35' RF cable
- Power supplies & cables

(3) CAISI Accessory Kit: The System Support Representative (SSR) Accessory Kit contains equipment primarily required for module component configuration. Most components are duplicates of the equipment in CBMs and CCMs. The duplicate items can be used as stand-alone supplementary equipment, or loaned to CBM or CCM operators to extend the capabilities of their equipment.

SSR Accessory Kit Components

- Notebook Computer
- Wired NIC/Wireless NIC
- Wireless Bridge/Access Point\
- DSL Bridge
- Two Inline Encryptors
- Multi-Client Radio Adapter
- Router

- Omni-directional and panel antennas
- Four 50' RF cables
- Power supplies
- Antenna Mast
- Two 14" Panel antennas

For additional detailed information on the CAISI Wireless components, refer to TM 11-5895-1691-12.

2.2.1 Software Configuration.

Table 2.2-1 CAISI Licensed COTS Software Listing

Software	Purpose
WS_Watch	Allows users to monitor the network connectivity in a graphical mode, displaying network nodes and hosts (NES, gateways, routers, CAISI hubs, TCP/IP hosts, etc.) as icons. Node icons will change color to represent loss of connectivity and allow users to troubleshoot specific lines or systems on the network.
BLAST	Allows serial connections to the CAISI, similar to the way the non-network capable STAMIS devices connect to CAISI.
TJPing	Provides a graphical user interface for standard ping functionality.
IP Addr. Asst.	Subnet calculator and analyzer.
Norton Anti-Virus	Anti-virus protection (DoD site license – free for use within DoD).

Table 2.2-2 CAISI Free COTS Software Listing

Software	Purpose
Acrobat Reader	Portable data format (*.pdf) file viewer. Free from Adobe Systems, Inc.
Microsoft Office Viewers	Viewers for Microsoft Word, Excel, PowerPoint, and Access will allow users to view, but not edit, data files from the listed Microsoft Office programs. Free from Microsoft, Inc.
WS_FTP	Graphical user interface for a standard FTP client program. Free for Government use, from Ipswitch, Inc.

Table 2.2-3 CAISI Included COTS Software Listing

Software	Purpose
Internet Explorer (Windows component)	Allows CSSAMO and SA users to connect to the CAISI components to remotely perform system administration tasks.
Telnet client (Windows component)	Allows CSSAMO and SA users to connect to the CAISI components to remotely perform system administration tasks.
Hyperterm (Windows component)	Allows CSSAMO users to connect to the console ports of CAISI components for configuration. Component of IIS server and all versions of Windows 2000.
FTP server (Windows component)	File Transfer Protocol server, allows users to transfer files to and from the CSSAMO notebook. Component of IIS server and all versions of Windows 2000.
TFTP server	Trivial File Transfer Protocol server allows the SA or CSSAMO to load new firmware images onto the Lantronix LSA devices.
Xircom NetPort card drivers	Driver for the PCMCIA adapter.
Cisco Aironet wireless card drivers and utilities	Drivers and utilities to configure and monitor the Cisco Aironet PC4800 wireless Network Interface Card (NIC) and bridges and to monitor segments of the wireless network.
Lantronix LSA drivers and utilities	Drivers and utilities to configure and monitor the Lantronix MSS-100 and MSS-VIA serial servers.

2.2.1 Operational Equipment. Separately authorized equipment required to operate the CAISI hardware includes connectivity devices employed by STAMIS users to connect to the CAISI hardware.

2.2.2 Transport Equipment. Transit cases will be provided to facilitate movement and storage. The hardware is transportable as restrained cargo over land, sea, and air with the necessary packaging and tie-down provisions. The CAISI hardware can withstand land transport in tactical wheeled vehicles over rough terrain. Airdrop and external air transport are not required and will not be used to transport the hardware.

2.3 Operational and Organizational (O&O) Plan. The CAISI Mission Scenario is derived from the Mission Need Statement (MNS) and the CAISI ORD. The requirement is for a set of components that allow battlefield CSS automation devices to exchange information via tactical and/or commercial networks with other battlefield CSS automation devices and with automation systems within the sustaining base. Current STAMIS systems in the Corps and Division areas are unable to electronically exchange information using tactical or commercial communications

networks (CCN). The CAISI hardware will provide an improved interface capability between CSS automation systems and tactical communications systems. CAISI will interface with all CSS STAMIS, tactical communications networks (TCN) (i.e., MSE, Tri-Service Tactical Communications (TRI-TAC)), CCN (i.e., Defense Data Network (DDN), Defense Switch Network (DSN)), and commercial telephone networks. The mission of the CAISI will be: accepting information (American Standard Code for Information Interchange (ASCII) or binary files) from CSS automation devices and interfacing with TCN and CCN to route the information to the destination addressee, and accepting information (ASCII or binary files) from TCN and CCN and interfacing with CSS automation devices to route the information to the destination addressee.

2.4 Deployment Schedules. Recently approved fielding schedule is shown at Appendix 9-15. This schedule, however, is under revision. The revised schedule, when approved will be incorporated in the MFP. Initial fielding will consist of replacing the CAISI Mid Term System hardware with the wireless configuration. Fielding sequence will be in accordance with Department of the Army direction and appropriate sequence listings.

SECTION 3

FIELDING AND LOGISTIC SUPPORT PROCEDURES

3.1 Command and Control Procedures.

3.1.1 Fielding Command and Control Procedures.

3.1.1.1 Organizational Responsibilities.

3.1.1.1.1 PEO EIS. PEO EIS, as the Materiel Developer, is responsible for procuring the hardware components and associated selected software applications, conducting site surveys, and serving as the Chief of Installation (COI) during prototype and field extensions. PEO EIS is responsible for life cycle maintenance and logistic support for the hardware. The address and telephone number is as follows:

Program Executive Office
Enterprise Information Systems
ATTN: SFAE-PS-O
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

DSN: 656-3114, Commercial 703-806-3114

3.1.1.1.2 APM CAISI. APM CAISI has the overall responsibility for development, acquisition, integration, and fielding of the CAISI. This responsibility includes selecting the hardware, executive and applications software, and telecommunications equipment. In addition, APM CAISI is responsible for conducting In-Process Reviews (IPR) to provide the latest information on the status, development, and fielding of the CAISI.

3.1.1.2 Fielding Extension Personnel. APM CAISI coordinates all CAISI fielding actions and also supports the Chief of Installation (COI) for each installation to be fielded. System fieldings will be under the guidance of the COI, who is responsible for extension activities in conjunction with the MACOM representatives.

3.1.1.2.1 Chief of Installation.

a. The COI is responsible for the overall control, conduct, and coordination of the MACOM fielding/extension effort.

(1) A COI will be assigned to each CAISI fielding.

(2) The COI represents PEO EIS and APM CAISI, interfaces with hardware contractors/vendors, and serves as the MACOM representative’s primary POC for hardware and fielding assistance.

b. The COI will assist the MACOM representative in scheduling and coordinating the arrival and departure of supporting personnel required during fielding.

c. The COI will usually be present during selected Installation Surveys (IS), but may or may not be present on a full-time basis during the complete hardware acceptance process during the CAISI extension fielding cycle. However, the COI will be available for development consultation and will make periodic on-site follow-up visits.

d. A Deputy COI from respective USAISEC Support Groups in the European and Pacific areas may assist, as required.

e. Responsibilities of the COI include:

(1) Coordinating all fielding and extension matters.

(2) Planning, scheduling, coordinating, and controlling the fielding process.

(3) Assisting the materiel developers in negotiating the MFAs with each gaining command, that outline all command responsibilities.

(4) Coordinating with the materiel developer and gaining commands to establish a Memorandum of Agreement (MOA) that outlines a detailed sequence of activities, procedures, and command responsibilities for fielding the CAISI Wireless at each site.

(5) Participating in In-Process Reviews (IPR) that provides current status on the fielding/extension effort.

(6) Conducting additional IPR, as required, to ensure the latest fielding/extension information is made available or disseminated.

(7) Participating in the Installation Survey.

3.1.1.3 Fielding Scenario. The planned sequence of events for the CAISI fielding is outlined in paragraph 3.1.1.4 below. The actual activities at each gaining command may differ, dependent upon installation unique variables.

3.1.1.4 Controlling Documents.

3.1.1.4.1 MFP. This MFP is the master-planning document governing all of the major events and support actions required to field the CAISI. The MFP will be continually updated to reflect the most current information throughout the planning and execution phases of the fielding.

3.1.1.4.2 Mission Support Plan (MSP). The MSP is intended to define the planned use, maintenance, and support of newly deployed end items. The MSP is prepared by the gaining command and is submitted to the fielding command on DA Form 5106-R (Mission Support Plan) in response to a memorandum of notification (MON) or MFP. The MSP is used by the fielding command to compute the initial issue distribution quantities at each level of support and to determine initial training requirements for both active and Reserve Component units. The MSP will be reviewed each time the MFP is revised. The MSP will become an annex to the MFP. Each MACOM will develop and submit a MSP to PEO EIS after receipt of the CAISI MFP. Submitting an electronic copy of the MSP (i.e., Form Flow) is acceptable. Those elements that are not covered in the MSP will be documented in the MOA. Guidance on preparing the MSP is contained in AR 700-142. The MSP should list the DoD Activity Address Code (DODAAC) for each gaining and supporting DS unit and include a POC, building number, and phone number for each unit. Distribution of the MSP must include the following address:

Program Executive Office
Enterprise Information Systems
Attn: SFAE-PS-O
9350 Hall Road Suite 141
Fort Belvoir, VA 22060-5526

3.1.1.4.3 Materiel Fielding Agreement (MFA). The MFAs between PEO EIS and each gaining MACOM will provide guidelines for the responsibilities, functions, and requirements for fielding the CAISI Wireless within the gaining MACOM. Signed MFAs will be attached as enclosures to this MFP in Appendix 9.1 - Agreements, and will be considered a part of the MFP for fielding the system within the MACOM. MFA with FORSCOM for Legacy STAMIS to include CAISI was approved 12 December 2000. See Paragraph 9.16.

3.1.1.4.4 Memorandum of Agreement (MOA). The MOA is developed during the Installation Survey.

a. The MOA details the fielding schedule and formally documents, with fact sheets, all actions to be completed before the fielding.

b. The body of the MOA lists understandings, agreements, general concerns, and major support and resource requirements.

(1) Enclosures to the MOA provide a calendar of events, general and specific checklists, detailed training schedules, attendance lists from various meetings, and fact sheets on various issues.

(2) Fact sheets detail specific concerns or problems and recommended actions to be taken before the CAISI Wireless fielding.

c. MOA are normally signed by the installation Commander or Chief-of-Staff or persons of equivalent rank, the MACOM representative, STAMIS technical and functional team leaders, and the COI.

3.1.2 Gaining MACOM Command and Control Procedures.

3.1.2.1 General. Each MACOM will formalize an MFA with PEO EIS to outline responsibilities for fielding equipment within the command. Each MACOM will provide funding for all necessary site preparations, participate in IPR, and coordinate actions relating to equipment fielding. The MACOM will appoint a representative to coordinate and monitor implementation of the MFA and development of subordinate unit MOA.

3.1.2.2 MACOM Installation Representative. The MACOM installation representative is the on-site coordinator for CAISI fielding/extension efforts. This representative will be the single point of contact used by the COI. The COI provides assistance and guidance to the MACOM representative. This representative is responsible for controlling the fielding/extension efforts at the gaining unit location(s) in accordance with MACOM policies. The MACOM installation representative is also instrumental in the success of the fielding effort. The MACOM MFA delineates the specific role of the MACOM installation representative. The MACOM installation representative will be responsible for coordinating the following:

a. Building space for acceptance/burn-in of the system.

b. Electrical Power available for the system.

c. Administrative support.

d. Installation requirements.

e. Communications support.

f. Other on-site visits.

g. Storage space.

h. Physical security provisions.

i. Communications security provisions.

j. Equipment delivery and testing.

k. Problem resolution.

l. Schedule changes.

m. Coordination with the unit.

n. System training requirements.

o. System fielding.

p. Any other efforts related to the fielding/extension.

3.1.2.3 Gaining Units. The gaining units will complete a Memorandum of Instruction (MOI) that establishes schedules, procedures, and responsibilities for fielding CAISI at each gaining unit. Each gaining unit will designate a Assistant Project Manager responsible for managing all actions necessary to implement the applicable MFA and MOA related to the installation of the CAISI hardware and extension of the CAISI application at the gaining unit.

3.2 Logistics Assistance.

3.2.1 Assistance Agencies. Logistics assistance activities, normally U.S. Army Materiel Command (USAMC) Logistics Assistance Offices (LAO) and Logistics Assistance Representatives (LAR), provide logistic assistance under the provisions of AR 700-4. The LAR is not part of the maintenance structure, but may recommend maintenance actions or procedures to their supported units. They may also offer assistance or advice in areas such as training or supply support. USAMC is responsible for obtaining assistance in support of MACOM system fielding and continuing technical support for the CAISI. The LAR, in turn, will contact PEO EIS for further assistance with CAISI problems. Assistance with software related problems can be obtained through the Installation/Division CSSAMO, who is the STAMIS software representative for that organization.

3.2.1.1 The United States Army Materiel Command (USAMC) Logistics Assistance Program (LAP). The Commanding General, AMC provides, manages, and controls the AMC worldwide LAP. The Director, USAMC Logistics Support Activity (LOGSA) at Redstone Arsenal, AL, executes the program. The appropriate LAR can be contacted through the LAO network outlined in Table C-2 (Supporting LAR/LAO/Field-Service Offices) of DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

3.2.2 Other MACOM Logistic Assistance. The PEO EIS is the system hardware materiel developer, and is responsible for coordinating logistics support. In this role, the PEO EIS is able to provide assistance with systemic logistics related issues at the following address and phone numbers:

Program Executive Office
Enterprise Information Systems
ATTN: SFAE-PS-O
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526
DSN: 656-3128 COMM: (703) 806-3128
FAX: DSN 656-3214 COMM: (703) 806-3124

3.3 Depot Level or Contractor Support.

3.3.1 Organic Support. Depot level organic support was implemented on 1 October 1994.

3.3.1.1 The CAISI maintenance support concept is based on a three level maintenance structure. Organizational level personnel will perform limited PMCS as identified in the applicable Operations Manual or commercial manuals. DSU maintenance personnel will provide maintenance support, and DSU SSA personnel will perform exchange transactions. Depot personnel will accomplish all depot level repairs and replacement procedures.

3.3.1.2 Software support can be obtained by contacting the system support representative at the supporting CSSAMO, PAS, or CSO. If unable to resolve the problem, further assistance can be obtained by contacting to the Fort Lee, VA Customer Assistance Office (CAO) at DSN 687-1051, commercial (804) 734-1051.

3.3.2 Contractor Support. Not Applicable.

3.3.3 Interim Contractor Support. Not Applicable.

3.3.4 Contractor Logistic Support. Not Applicable.

3.3.5 Contractor Support for Initial Fielding. Not Applicable.

3.4 Materiel Defects Correction.

3.4.1 Materiel Defects. The procedures outlined in paragraphs 4.1 (Maintenance Plan) and 4.2 (Warranties) will be utilized to report and correct materiel defects and/or user problems.

3.4.2 Equipment Improvement Recommendation (EIR). The procedures for utilizing the EIR process are contained in DA PAM 738-750. These reports are prepared using Standard Form (SF) 368 (Product Quality Deficiency Report) to report equipment faults in design, operations, and

manufacturing of new equipment which are below standard quality in workmanship.

3.4.3 Logistic Support Problems. PEO EIS will resolve the problems experienced by units subsequent to system acceptance. Detailed information on resolving warranty problems is located in paragraphs 4.2 through 4.2.16 and Appendix 9.5 - Warranties.

3.5 Coordination.

a. As specified in DA PAM 700-142, copies of the MFP are forwarded to the gaining MACOM for distribution to gaining units for review and comment.

b. A MFA is formalized with each MACOM.

(1) The MFA provides the basis for planning and coordinating the fielding process at the gaining unit level.

(2) It also identifies the MACOM and unit POC.

c. A MOA is formalized with each gaining unit/installation. It identifies and documents all required activities and materials to be acquired for fielding. The MOA is coordinated with all appropriate supporting elements/agencies, equipment vendors, and gaining units/installations.

SECTION 4

SYSTEM SUPPORT DETAILS

4.1 Maintenance Plan.

4.1.1 Maintenance Reporting Requirements. Reporting requirements in accordance with AR 710-3 and under the provisions of DA PAM 738-750 for CAISI Wireless hardware are to be determined.

4.1.2 Maintenance Concept.

The CAISI maintenance concept is a three level maintenance concept: organizational, direct support and depot. The following procedures describe the processes that should be followed when requesting maintenance support or when users are experiencing a hardware or software-related problem. The general maintenance flow is shown below in figure 4.1.2-1.

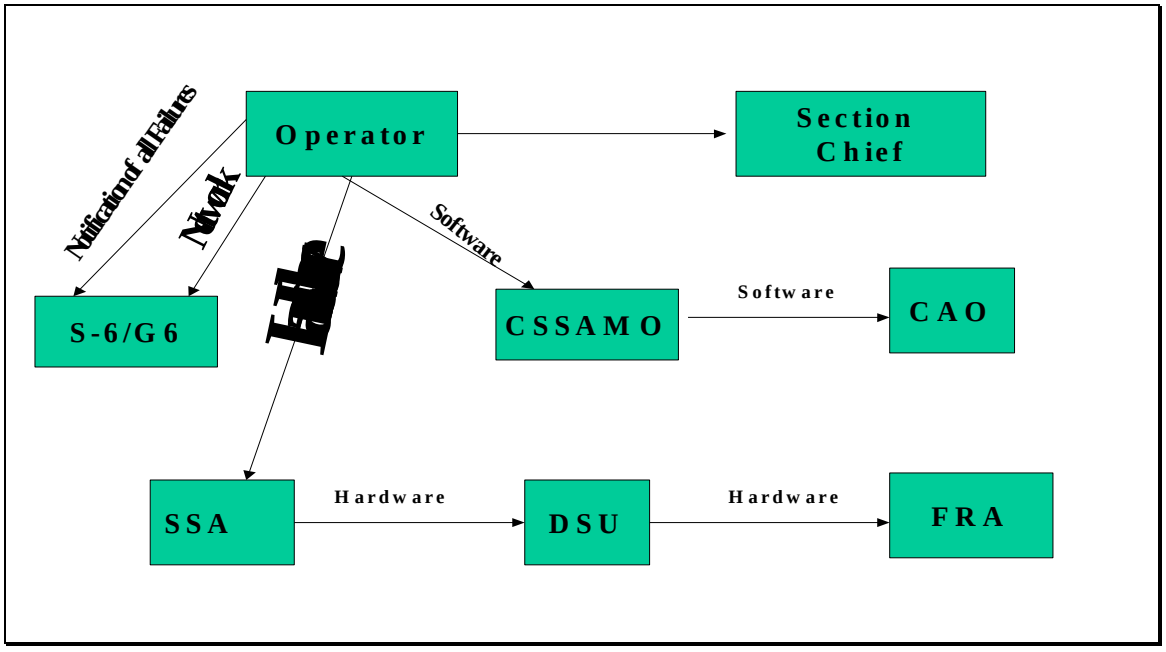


Figure 4.1.2-1

4.1.2.1 Repair Procedures.

4.1.2.1.1 Organizational Level Maintenance.

a. Maintenance operations for CAISI unit maintenance include the following:

(1) Performance of Preventive Maintenance Checks and Services (PMCS)

(2) Conduct of inspections by sight and touch of external and other easily accessible components.

(3) Cleaning, tightening, and minor adjustments as authorized.

(4) Performance of basic troubleshooting and diagnostics upon recognizing that the CAISI module is not functioning properly or non-operational. The using unit will:

- Ensure STAMIS communications module is properly configured.
- Troubleshoot the Standard Army Management Information System (STAMIS). If problem is with the STAMIS, contact CSSAMO.
- Check connections to CAISI Bridge Module (CBM), CAISI Client Module (CCM) or Legacy Support Adapter (LSA).
- Check with other users to CBM/CCM to see if they have connectivity.
- Contact “owner” of the CAISI Bridge Module, who checks connectivity with other users.
- If the problem is determined not to be the STAMIS, the using unit will further troubleshoot his/her CAISI Bridge Module (CBM) or CAISI Client Module (CCM) as well as all other modules attached to determine connectivity.
- Complete DA Form 2404/DA Form 5988-E, Equipment Inspection and Maintenance Worksheet, in accordance with DA PAM 738-750, The Army Maintenance Management System (TAMMS), identifying the faulty condition and the status provided by the operator diagnostics or the failure symptom at the time of failure.

b. In addition to the information outlined in DA PAM 738-750, the following information must be annotated on the DA Form 2404/DA Form 5988-E.

- System, i.e., CAISI
- Type of operating system – Not Applicable
- Part number and type of LRU (e.g., CAISI Bridge Module, CAISI Client Module, etc)
- Manufacturer/Integrator of the failed item, i.e., Tobyhanna Army Depot
- Symptoms of the failure and results of the diagnostics or troubleshooting procedures

c. If your CAISI module is the only unit not receiving connectivity, contact the System Support Representative (SSR) for assistance in troubleshooting the network and/or communications-related failures.

d. If the SSR, after appropriate troubleshooting and system diagnostics checks, determines that a software problem exists and isolates it to the STAMIS, the using unit will be referred to the supporting Combat Service Support Automation Management Office (CSSAMO).

e. If the SSR, after appropriate troubleshooting and system diagnostics checks, determines that a hardware problem exists, the using

unit will be referred to the supporting Class VII Supply Support Activity/Installation Supply Support Activity (SSA/ISSA). Once the LRU has been isolated, the Class VII SSA/ISSA will exchange the malfunctioning LRU.

f. After exchanging the LRU at the Class VII SSA/ISSA, the using unit will return to his unit, connect the exchanged LRU and attempt to operate the system.

4.1.2.1.2 Class VII SSA/ISSA.

a. The Class VII SSA/ISSA will accept the LRU from the unit with a properly completed DA Form 2765-1, Request for Turn-in and another DA Form 2765-1, Request for Issue and provide the unit a replacement LRU from the SCX stockage.

b. The Class VII SSA/ISSA will process the turn-in, record the demand, and process the item in accordance with the SCX (reparable exchange) procedures.

c. The Class VII SSA/ISSA personnel will prepare a DA Form 2407/DA Form 5990-E, Maintenance Request in accordance with DA PAM 738-750, TAMMS for the failed LRU describing the failure. In addition to the information outlined in DA PAM 738-750, the following information must be annotated on the DA Form 2407/DA Form 5990-E:

- System, i.e., CAISI
- Type of operating system – Not Applicable
- Part number and type of LRU (e.g., CAISI Bridge Module, CAISI Client Module, etc)
- Manufacturer/Integrator of the failed item, i.e., Tobyhanna Army Depot
- Symptoms of the failure and results of the diagnostics or troubleshooting procedures

d. The Class VII SSA/ISSA personnel will forward the failed LRU to the DSU/IMMA.

4.1.2.1.3 DSU/IMMA Level Maintenance.

a. The DSU/IMMA will accept the LRU from the unit with a properly completed DA Form 2765-1, and provide the unit a replacement LRU from the SCX stockage.

b. The DSU/IMMA personnel will prepare, in accordance with DA PAM 738-750, The Army Maintenance Management System (TAMMS), a DA Form 2407 or a DA Form 5990-E, Maintenance Request, for the failed LRU, describing the failure. In addition to the information outlined in DA PAM 738-750, the following information must be annotated on the DA Form 2407:

(1) The STAMIS (CAISI).

(2) The type of operating system (UNIX).

(3) The part number and type of LRU (e.g., hub, notebook computer, UPS).

(4) Manufacturer of the failed item.

(5) Symptoms of the failure and results of the diagnostics or troubleshooting procedures.

(6) Serial number of the failed LRU.

c. DSU/IMMA personnel will perform the authorized troubleshooting and system diagnostics checks.

(1) If the LRU is operational, it will be returned to the DSU SSA/ISSA SCX stockage.

(2) If the LRU is not operational and cannot be made operable by the DSU/IMMA maintenance personnel, the maintenance personnel will contact the designated FRA for disposition instructions as to repair, or disposal.

(a) If the LRU is not serviceable the FRA will provide the DSU/IMMA maintenance personnel with the coordination of repair/replacement. in accordance with the warranty provisions outlined in Appendix 9.5 - Warranties.

(b) If the LRU is not serviceable the FRA will provide shipping instructions for the LRU. The DSU/IMMA maintenance personnel will forward the equipment with the DA Form 2407/DA Form 5990-E to the FRA, using a mailing label or shipping service provided by the FRA. The DSU/IMMA maintenance personnel will maintain a log of equipment returned to the FRA.

d. When the LRU is replaced or returned by the Depot FRA, the DSU/IMMA maintenance personnel will place the LRU into the DSU/ISSA SCX stockage. To ensure serial number tracking, the disposition of the DA Form 2407/DA Form 5990-E will be in accordance with DA PAM 738-750.

4.1.2.1.4 Depot Level Maintenance.

a. The Depot FRA performs all maintenance actions above the DS level. LRUs are repaired, rebuilt, refurbished, or replaced. The FRA facilitates the distribution and repair of all warranted and non-warranted hardware.

Note: Replacement items may have greater capability (e.g., more RAM, greater speed, etc.) than the returned items, but will always be of the same form, fit, and function.

b. FRAs are staffed with a point of contact (POC) during the Principal Period for Maintenance (PPM) hours.

(1) The continental United States (CONUS) FRAs operate from 0800 to 1600 hours, local time, Monday through Friday (the PPM), excluding federal holidays.

(2) Outside continental United States (OCONUS), the Help-Line operates from 0800 to 1700, local time, Monday through Friday, excluding federal and host nation holidays.

(3) Hours other than PPM are defined as Outside Principal Period for Maintenance (OPPM). FRAs will, at a minimum, provide an answering service to record calls.

c. FRAs may be staffed 24 hours per day, 7 days a week, during contingencies, exercises or in wartime.

d. A Depot FRA facility is located at Tobyhanna, PA, Fort Hood, TX, Fort Bragg, NC, the Republic of Germany, Korea, Hawaii, Kosovo and Bosnia.

e. The addresses and telephone numbers of the FRAs are as follows:

f. The Depot FRA Help-Line operator talks the DSU/IMMA maintenance personnel through a series of questions/diagnostics for the system described. The objective of the telephonic Help-Line is to preclude costly No Evidence Of Failure (NEOF) incidents.

g. The Depot/FRA Help-Line operator determines, during telephonic contact with the DSU/IMMA maintenance personnel, the warranty status of the unserviceable LRU.

(1) If the LRU is non operational, the Depot/FRA Help-Line operator provides the DSU/IMMA maintenance personnel shipping instructions for the item to be returned.

h. The Depot FRA Help-Line operator obtains the following information from the DA Form 2407/DA Form 5990-E, Maintenance Request:

- Owning unit’s Unit Identification Code (UIC).
- Owning unit’s Department of Defense Activity Address Code (DODAAC).
- Owning unit’s DSU/IMMA designation.
- CAISI CCM, CBM, LSA or SSR Kit.
- Type of operating system.
- Part number and type of LRU.
- Manufacturer of the failed LRU.
- Symptoms of the failure and results of the diagnostics or troubleshooting procedures.
- Serial number of the failed LRU.

(1) If the LRU is not a Class VII SSA/ISSA SCX stocked item, the FRA prepares and ships a replacement item using a 24-hour shipping service.

(2) If the item is Class VII SSA/ISSA SCX stocked, the FRA prepares and ships a replacement item within 72 hours (3 working days) after receipt of the failed item. The FRA attaches a label to the replacement item that reflects the intended UIC, the type software, the OS, and the date loaded.

i. Upon receipt of the faulty item from the DSU/IMMA, the FRA logs the LRU into the FRA database by part number, UIC of the losing unit, and reported fault. The FRA screens LRUs for NEOF.

j. No items are to be sent to the Depot/FRA without prior coordination.

UPDATE

TABLE 4.1.2.1.4-1
Tobyhanna STAMIS Support Location Information

Location	Address	POC	Email	Voice (DSN & Comm)	Fax (DSN & Comm)
Tobyhanna Pennsylvania	PEO EIS Repair Activity Bldg. 5, Bay 2, Maintenance 11 Hap Arnold Blvd Tobyhanna PA 18466-5028 Mark For: Special Project "BUY" DODACC:W25JNE	Leo Yesvetz	Leo.yesvetz@tobyhanna.army.mil	DSN 795-6747 Comm 570-895-6747 888-278-8281	DSN 795-6049 Comm 570-895-6049
Tobyhanna Pennsylvania	Cdr, Tobyhanna Army Depot ATTN: AMSEL-TY-MM-P 11 Hap Arnold Blvd Tobyhanna, PA 18466	Luddy Manganiello	ludwig.manganiello@tobyhanna.army.mil	DSN 795-7605 Comm 570-895-7605	DSN 795-7796 Comm 570-895-7796
Fort Hood Texas	Tobyhanna FRA Bldg. 4417 Corner of 68th & Santa Fe Ft Hood, Texas 76544	Gary Leofsky Scott Jones	gary.leofsky@hood.army.mil	DSN 738-5079 Comm 254-288-5079	DSN 738-0905 Comm 254-288-0905
Fort Bragg North Carolina	Tobyhanna FRA Bldg. J-2144 Knox Street Complex Ft Bragg, NC 28310	Charles Marsala Ted Pearil	charles.marsala@tobyhanna.army.mil Theodore.pearil@tobyhanna.army.mil	DSN 236-3080 Comm 910-396-3080	DSN 236-5033 Comm 910-396-5033
Seoul Korea	Tobyhanna FRA SR 595th CS Maint Co DS Songnam, Seoul AB Korea KS DODAAC: WT4KDX	Mike Lucas	lucasmi@usfk.korea.army.mil	DSN 315-741-6348 Comm 901182-3427-206356	DSN 315-741-6356 Comm 82-3427-806356
Friedrichsfeld Germany	HQ. AMC Europe Tobyhanna FRA Unit 29331, Box 293 APO AE 09266 DODAAC W80YW6	Rich Pryor Dallas Jamison Laura Tigert	pryorr@hq.hqusareur.army.mil	DSN 314-375-6075 Comm 011-49-6214876075	DSN 314-375-7199 Comm 011-49-6214877199

Schofield Barracks Oahu Hawaii	Actual location & FedEx/UPS address Tobyhanna FRA Bldg. 847 (J-QUAD) Schofield Barracks, HI 96857 Ship large items to: DOL, HQ USA SCH Storage Branch Bldg. 6037 East Range HI 96857-5006 Official Mail to: Army Logistics Assistance Office, 25th ID ATTN: AMXLS-P-SB Tobyhanna Stop #236 Schofield Barracks HI, 96857-5400	Vacant		DSN 315-456-5601 Comm 808-655-0902	DSN 315-456-5531 Comm 808-656-0906
Comanche Base Bosnia	OJF Eagle Base Tuzla, Bosnia Computer Repair Facility APO AE 09789 Phone 762-7544	Rotates	Lse-b.Tobyhanna@email - TC3.5sigcmd.army.mil	DISN 314-762-7544 BDI	DISN 314-762-7544 BDI
Camp Bondsteel Kosovo	Computer Repair Facility Task Force Falcon Bondsteel, Kosovo FSB (AMC) TACMIS/TIER III APO AE 09340 Phone 781-3100	Rotates	Christopher.sefchik@bondsteel2.areur.army.mil	DISN 314-781-3100	DISN 314-781-3100
Colonial Heights, Virginia Note: Services Army Reserve SCX Center Only	Tobyhanna FRA Colonial Heights 840C West Roslyn Rd Colonial Heights, VA 23834	William Lofton	William.lofton@tobyhanna.army.mil	Commercial only 804-526-6046/6047	Commercial only 804-526-6048
Ft Lewis, Washington	ESSC ATTN: Anthony Losito (TYAD FRA) Bldg 3096 MS60 Box 339500 Stryker Ave at S. 20th St Fort Lewis, WA 98433-9500	Tony Losito	lositoa@lewis.army.mil	Comm 253-966-7086 DSN 347-7086	DSN 357-2565

4.1.2.1.5 System Support Representative.

a. The System Support Representative for CAISI is the CSS S6 who oversees the installation, management and maintenance of the local area network.

b. The CAISI owner, who is experiencing a problem, contacts the System Support Representative (SSR), CSS S6 who will:

- Record the symptoms/problems that the user is experiencing and actions that lead to the problems. Also record any visible damage that the unit operator has noted

- Apply common solutions for common problems that have occurred

- Troubleshoot the system and identify the failure as software or hardware or network/communications related

c. If the SSR, after appropriate troubleshooting and system diagnostics checks, determines that a software problem exists, the SSR will advise the CAISI owner to contact the supporting CSSAMO.

d. If the SSR, after appropriate troubleshooting and system diagnostics checks, determines that a hardware problem exists, the SSR will advise the CAISI owner to contact the supporting SSA/ISSA. The supporting SSA/ISSA is responsible for maintaining the STAMIS computer exchange (SCX) for CAISI and is authorized to swap out defective modules.

4.1.2.1.6 CSSAMO

a. If the SSR, after appropriate troubleshooting and system diagnostics checks, determines that a software problem exists, the SSR will advise the CAISI owner to contact the supporting CSSAMO.

b. When the CSSAMO is contacted, the CSSAMO will:

- Record the symptoms/problems that the user is experiencing and actions that lead to the problems. Also record any visible damage that the unit operator has noted.

- If a software problem still exists, the supporting CSSAMO will contact the CAISI Software Help Desk (STAMIS Customer Assistance Office).

4.1.3 Maintenance Contingency Operations.

a. PEO EIS provides a rapidly deployable FRA to provide maintenance essential materials, and increased flexible combat service support of COTS NDI ADPE in support of deployed U.S. Forces.

b. The FRA is established as an In-Theater Computer Repair Activity (ITCRA) to meet deployment requirements. The objective of the ITCRA is to reduce the logistics delay time by minimizing the evacuation of tactical systems from the theater for repair. This reduces the time and distance between point of failure and point of repair. The ITCRA interfaces with the theater command structure to resolve COTS/NDI ADPE

issues and problems. This capability is offered to assist the theater in repair of all other COTS systems on a reimbursable basis.

c. PEO EIS has three 36-foot vans and three S-280 shelters pre-positioned at Tobyhanna Army Depot, Tobyhanna, PA. The combination of vans and shelters gives PEO EIS the capability to provide maintenance in four theaters of operation simultaneously. The ITCRA can be deployed as a standalone configuration, or as part of a Logistic Support Element (LSE). The ITCRA is configured in one of the configurations as follows:

(1) A 36-foot van configured with workstations, small parts storage, and large parts storage.

(2) Three S-280 shelters: a small parts storage shelter, a large parts storage shelter, and a repair/workshop shelter.

d. Operations include repair of PEO EIS COTS NDI ADPE systems, repair of LRUs and SRUs, modules, and components, in addition to providing a capability to determine source of repair and disposition of returns (in-theater or retrograde out of theater). Operations so include repair of all other COTS systems on a reimbursable basis.

4.1.4 STAMIS Computer Exchange (SCX) Stockage.

a. SCX is composed of the CAISI Wireless system configuration, including associated peripheral equipment used to operate or support CAISI.

b. The SCX is pre-positioned at DSU SSA/ISSA, CMDR designated location and designated depots/FRA as complete Class VII systems, to provide direct exchange support for the extended depot process.

c. The LRUs for CAISI Wireless are defined as CAISI Client Module, CAISI Bridge Module, SSR Accessory Kit, notebook computer, and UPS.

d. Only the failed LRU will be evacuated to the depot/FRA for repair.

e. Consistent with the above, PEO EIS distributes approved SCX levels at time of fielding. The SCX will be identified in the MOA. Additionally, the SCX, in support of each CAISI configuration, must be accounted for as a Class VII system at the Property Book Officer (PBO) level.

4.1.5 Consumable and Expendable Supplies. Replacement consumable and expendable supplies for centrally procured hardware will be acquired by the using organization. APM CAISI will provide initial expendable supplies as outlined in the Installation Survey MOA. A listing of all consumable and expendable supplies is shown in Table 5.1.5-1 below.

Table 4.1.5-1
Expendable/Durable Items List

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION	(3) SOURCE OF SUPPLY	(4) UNIT PRICE
	CAT-5 Crossover Cable		
	CAT-5 Ethernet Cable (different sizes)		
5640-00-103-2254	Duct Tape (100-mile-n-hour tape)	GSA	$3.36
6150-01-281-1058	Power strip, Electrical Outlet	S9G (DLA)	$37.93
	RG-58 Cable		
5120-01-465-9828	Adapter, Pin– 9 pin to 25 pin	S9M (DLA)	$18.00
5685-00-670-0871	T-Connectors	S9G (DLA)	$1.35
5985-01-397-1999	BNC Terminators	S9E (DLA)	$1.67
	Velcro Straps		
	Washer		
	Wing Nuts		
5110-01-177-7332	Wire stripper	GSA	$4.61
7045-01-498-8778	Wire ties	3Y736	$2.38
	Ziploc storage bags		

4.2 Warranties.

a. COTS/NDI hardware will be procured with an established warranty period in accordance with the appropriate procurement contract.

b. Warranty periods may be extended through coordination between the Government and the contractor.

c. Warranty information for specific hardware and contract is addressed in the following paragraphs:

4.2.1 Nomenclature. The official item name and nomenclature has not yet been assigned. Request for Nomenclature for the CAISI Wireless hardware configuration has been submitted to AMC/CECOM for further processing and approval. When assigned, this information will be updated accordingly.

4.2.2 National Stock Number (NSN). Component national stock numbers are shown below.

Table 4.2.2-1CAISI Wireless Nomenclature Cross Reference List

Common Name	Official Name	Part #	NSN
CAISI Bridge Module	Processor, Communications Gateway ZLIN Z53098	A3269821	5895-01-487-4020
CAISI Client Module	Processor, Bridge ZLIN Z00056	A3269822	5895-01-487-4023
Legacy Support Module	Interface Unit, ADP	MSS100-01	7025-01-487-4021
SSR Accessory Kit	Accessory Kit, Electronics Equipment ZLIN Z00057	A3269820	5999-01-487-2681

4.2.3 Commodity Office, Address, and Telephone Number. Not Applicable.

4.2.4 Level of Warranty Claim Actions Related to the Maintenance Allocation Chart (MAC). Not Applicable.

4.2.5 Warranty Duration. Warranty durations for the CAISI hardware are outlined in Appendix 9.5 - Warranties.

4.2.6 Warranty Usage and Operation Limits. Warranty usage and operation limits for the respective hardware contracts are outlined in Appendix 9.5 - Warranties.

4.2.7 Publication and Date. The CAISI hardware warranties are incorporated into the appropriate procurement contract.

4.2.8 Extended Storage Allowances. Not Applicable.

4.2.9 Special Storage Requirements. No special storage is required. The CAISI hardware configuration can be stored in the transit cases, carrying cases or packaging/shipping material in which the equipment was originally received. The storage temperature range is -40^{o} to 140^{o}F. The storage humidity range is 5% to 95%.

4.2.10 Contract Numbers. CAISI components are commercial off-the-shelf items procured from standard ID/IQ contracts, GSA schedules and Blanket Purchase Agreements (BPA). STAMIS Computer Contract (SCC II) with GTSI Corporation serves as the main purchase vehicle. Contract number is DAAB07-98-D-V001.

4.2.11 Contractor's Federal Supply Code for Manufacturers (FSCM). FSCM for GTSI Corporation is 8Y261.

4.2.12 Listing of Servicing Dealers. Tobyhanna Army Depot Forward Repair Activities will provide CAISI maintenance support to include handling of vendor warranties.

4.2.13 Warranty Data Plate Location with Explanation of Abbreviated or Condensed Data. A warranty data plate is not attached. The DD Form 250 signed upon acceptance signifies the commencement of the warranty period. Warranties are tracked by a database residing at the Tobyhanna Army Depot (TYAD) forward repair facility.

4.2.14 Components with Different Warranty Parameters. CAISI hardware warranty parameters are outlined in Appendix 9.5.

4.2.15 DA PAM 738-750 or DA PAM 738-751. Procedures in DA Pamphlets 738-750 and 738-751 are not applicable to warranty administration on the CAISI hardware.

4.2.16 Contractor Commitments, Warranties, and Representations.

a. Any written commitment by the contractor, within the scope of the applicable hardware contract, shall be binding upon the contractor. Failure to fulfill any commitment shall render the contractor liable for liquidated or other damages due the Government under the terms of the contract. Written commitments include:

(1) Any warranty or representation made by the contractor in the proposal as to hardware or software performance, total system performance, and other physical, design, or functioning characteristics of a machine, software package or system, or installation date.

(2) Any warranty or representation made by the contractor concerning the characteristics or items described above made in any publications, drawings, or specifications accompanying or referred to in a proposal.

(3) Any modification of, or affirmation or representation as to the above, which is made by the contractor in or during the course of negotiations, whether or not incorporated into a formal amendment to the applicable proposal.

b. Prior to the expiration of the warranty period, whenever equipment is shipped for replacement purposes, the contractor will bear all applicable costs.

c. The warranty shall not apply to maintenance required due to fault or negligence by the Government.

4.3 Support Equipment and Test, Measurement, and Diagnostic Equipment.

4.3.1 Special Tools and Tool Sets. There are no special tools and tool sets required to support CAISI.

4.3.2 Common Tools and Tool Sets. Common tools required for maintenance (i.e., screwdrivers) should be on hand at the user organizational maintenance activities supporting CAISI equipment

4.3.3 Special TMDE (to include calibration equipment). No special TMDE is required.

4.3.4 Test Program Sets for Special TMDE. Test Program sets are not required.

4.3.5 Common TMDE (to include calibration equipment). None required.

4.3.6 Test Program Sets for Common TMDE. Test Program sets for common TMDE are not required.

4.3.7 Performance Monitoring and Maintenance Indicators. Performance monitoring and maintenance indicators are not applicable to CAISI.

4.3.8 Special Purpose Kits. No special purpose kits are required for CAISI.

4.3.9 Other Support Equipment. None Required.

4.3.10 Interim Substitute Support Equipment. Interim substitute support requirements are not anticipated.

4.3.11 Local Fabrication Requirements. Local fabrication will not be required in support of CAISI.

4.4 Supply Support.

a. The APM CAISI, Proponent Agency (PA), Assigned Responsible Agency (ARA), and Application System Developer (ASD) will coordinate supply support to ensure hardware equipment and supplies are on hand to meet fielding and subsequent operational needs. The Depot/FRA will provide all repair parts and STAMIS Computer Exchange (SCX) replenishment materials. Other than expendable supplies, no CAISI items will be obtained through the Army supply system.

b. The determination of the range and depth of LRU to maintain the CAISI system will be based upon the item criticality, Mean Time Between Failure (MTBF), redundancy, logistics delay time, and cost.

c. SCX items will be requested by the CAISI users through their Direct Support Unit (DSU)/Supply Support Activity (SSA). Unique items of supply will be provided in conjunction with the fielding.

d. The CAISI COTS/NDI hardware will be maintained using Direct Support (DS) and Depot FRA support. Provisioning technical documentation will not be required.

e. DSU/IMMA will directly interface with the Depot/FRA and request shipment of all replacement SCX items. The Depot/FRA will handle all repair parts, install all parts at the depot/FRA, and return the LRU to the DSU/IMMA.

4.4.1 Master Support List. APM CAISI and PEO EIS have identified those items that are to be provided as spare/repair parts (SCX stockage) for the CAISI Wireless fielding. These items will be identified as initial issue spare/repair parts and outlined in the MOA.

4.4.2 Components of End Item (COEI) List. See Appendix 9.6 of this MFP. This portion of the MFP is for informational purposes only, and does not authorize requisition of components. These items are components of the end item and separately packaged for transportation or shipment. As components of the end item, these items must be with the end item whenever it is issued or transferred between property accounts.

4.4.3 Basic Issue Items (BII) List. The System Support Package (SSP) is a composite of the support resources required for support of the CAISI Wireless hardware. Appendix 9.7 - Basic Issue Items (BII) List lists the SSP components. This portion of the MFP is for informational purposes only, and does not authorize requisition of these items. BII are identified as essential items required to be available for user/crew operation and support of a major end item. BII are authorized for use with a major end item, but are not part of the end item engineering drawing configuration.

4.4.4 Additional Authorizations List (AAL) Items. Appendix 9.8 - Additional Authorizations List (AAL) contains the AAL items for the CAISI. This portion of the MFP is for informational purposes only, and does not authorize requisition of these items. AAL items are separately authorized. AAL items are not issued as part of the major end item and are not listed on the end item engineering drawings as part of the end item NSN configuration. AAL items do not have to accompany the end item at all times; however, AAL can be mission essential support items.

4.4.5 Float Quantities. Not Applicable. No Operational Requirements Floats (ORF) or Repair Cycle Floats (RCF) will be procured. System hardware failures will be corrected by use of STAMIS Computer Exchange (SCX) stockage.

4.4.6 Basic Sustainment Materiel (BSM). Not Applicable.

4.4.6.1 Petroleum, Oils, and Lubricants (POL). Not Applicable.

4.4.6.2 Other Bulk Supplies. Using units will requisition common supplies through normal supply purchases, or through local purchase.

4.4.6.3 Ammunition Requirements. Not Applicable.

4.4.7 Plans for all Replaced and Displaced Equipment and Materiel. The CAISI Wireless hardware configuration will replace the CAISI Mid-Term beginning 4QFY02.

a. Hardware. The CAISI-MT system will be turned in to the Chief of Installation (COI) on site during fielding of the CAISI wireless configuration. Units should come prepared with the appropriate documentation, i.e., report of survey, to explain missing equipment. Exact times and locations for turn-in will be coordinated during CAISI site surveys. Notebook computers provided to the CSSAMO and the Riser Bond Time Domain Reflectometers (TDR) should be retained for use with the CAISI wireless configuration. For any unit that has been approved to keep the current CAISI-MT configuration, maintenance and repairs that are needed on that system becomes the responsibility of that unit.

b. Software. The CAISI Mid-Term software will be prepared for turnover to the software reuse library, if appropriate, once decision has been made that all STAMIS legacy systems are network capable, both hardware and software and the legacy support adapter will no longer be required.

4.4.8 Evacuation Procedures. The established maintenance structure provides for required movement of systems/components.

4.4.9 Method of Distribution. See Section 3 of this MFP for the fielding process.

4.5 Transportation and Transportability (T&T). CAISI hardware is easily transportable by all modes (air, water, rail, and roadway). In a 19 January 1995 Memorandum for PEO STAMIS, subject: Transportability Approval, Military Traffic Management Command (MTMC) stated that transportability approval is not required for STAMIS ADPE. STAMIS ADPE has been declared a Non-Transportation Problem Item (NPI) by MTMC.

4.5.1 Transportability Guidance and Procedures (AR 70-47). A Transportability Guidance Technical Manual will not be required.

4.5.2 Security-in-Transit. Not Applicable.

4.6 Packaging, Handling, and Storage (PHS).

4.6.1 Packaging. CAISI hardware is electronics equipment and requires protection from outside environments. Transit cases will be provided for CAISI components to facilitate movement and storage.

4.6.2 Handling. The CAISI hardware will be configured for movement in its transit case. Additionally, equipment will be transportable as restrained cargo in tactical vehicles over rough terrain; containerized or palletized cargo for shipment via commercial or Government conveyances, and includes blocking, bracing, and other packaging requirements that conform to Government acceptable practices.

4.6.3 Storage. Storage facilities may consist of general-purpose warehouses and existing tents, shelters, and buildings. CAISI hardware will be stored in the transit cases in which the equipment is received. No special storage is required.

4.7 Technical Documentation.

4.7.1 Technical Manuals. Documentation developed in support of CAISI includes the Training Support Package (TSP), which consists of Program of Instruction (POI), lesson plans, Technical Manual 11-5985-1691-12, and Software Users Manual 11-5895-1691-12. Independent Validation and Verification (IV&V) was conducted 19-23 August 2002 on both the technical manual and software users manual. A copy of the technical manual will be provided in the CBM and CCM transit cases and one copy of each in the SSR transit case.

4.7.2 Supply Manuals and Bulletins. All supply processes operate in accordance with the following applicable supply and maintenance documents. There are no special supply manuals and bulletins required.

a. AR 710-2, Supply Policy Below the Wholesale Level, dated 20 Sep 1989, unclassified.

b. DA PAM 738-750, The Army Maintenance Management System (TAMMS), dated 31 Oct 1989, unclassified.

4.7.3 Camouflage Pattern Painting Requirements. Not Applicable.

4.7.4 Instruction Cards and Placards. Inventory checklists and a quick configuration guide will be provided and placed in each transit case.

4.7.5 Inspection, Test, and Calibration Procedures. Not Applicable.

4.7.6 End Item/Weapon System Environmental Effects (AR 200-1).

a. Noise levels are within standards set in MIL-STD 1474B.

b. No radioactive material is used in the CAISI hardware configuration.

c. The System Safety and Health Hazard assessment tasks included as part of the System Safety Program, in accordance with MIL-STD 882, are the Safety Assessment Report, the System Safety Design Verification Checklist, and the Environmental Impact Analysis Worksheet.

d. A Safety Release and Health Data Sheet and Environmental Assessment, in support of CAISI was provided in June 2002 from the US Army Communications Electronics Command (CECOM) in support of testing, training, type classification and materiel release, as required.

4.7.7 Modification Work Orders (MWO). Modification Work Orders are not in effect.

4.7.8 Transportation and Transportability Guidance Technical Manuals (TMs). A Transportability Guidance Technical Manual will not be required.

4.7.9 Demilitarization (DEMIL) and Explosive Ordnance Demolition (EOD). Not Applicable.

4.8 Facilities. New facilities are not required. CAISI replaces existing hardware suites and should be located in the same facilities and operate in existing environment where these systems currently reside.

4.8.1 Mobile and Fixed Facilities.

a. All facility requirements are known at this time. There are no projected new or modified facilities requiring coordination with the Corps of Engineers. Existing training, fielding, and NET facilities should be adequate. Classrooms with adequate electrical connections for system hardware are required.

b. AR 380-19, Information Systems Security, prescribes policies and provides guidance for the security of automated systems. Appendix 9.14, Classified Information, will provide additional details.

4.8.2 Environmental Controls. No special environmental controls are required.

4.8.3 Site Activation and Preparation. No special site activation and preparation is required. CAISI operates in a garrison environment as well as a tactical environment in areas utilizing the current system. In a tactical environment, a tent or shelter will be required for equipment operation. MACOM will have the responsibility to survey, modify, and ensure facilities are ready for the CAISI implementation.

4.8.4 Ammunition Storage. Not Applicable.

4.9 Manpower and Personnel Requirements.

4.9.1 Manpower and Personnel.

4.9.1.1 Tables of Organization and Equipment (TOE) and Tables of Distribution and Allowances (TDA). An increase in manpower is not planned at installations where the CAISI will be used and maintained.

4.9.1.2 Manpower Requirements. CAISI is user owned and operated. The primary user may be Military Occupational Specialty (MOS) 92A. MOS 74B is expected to provide CSSAMO support for CSS units and appropriate MOS for SIDPERS and MC4. MOS 31U will provide organizational level maintenance. No new MOS or Civilian Job Series (CJS) will be created for this system.

4.9.1.3 Personnel Requirements. Existing MOS will be sufficient to operate and maintain the CAISI system. Operators at using unit level may be General Purpose Users, MOS 92A and will perform preventive maintenance with organizational level maintenance performed by MOS 31U, Signal Support System Specialist. A Telecommunications Terminal Device Repairer, MOS 29J/35J, will perform direct Support/General Support (DS/GS) maintenance. The System MANPRINT Management Plan (SMMP) is the source document for CAISI manpower limitations. There will be no increase or decrease in STAMIS functional manpower from the original hardware.

4.9.2 Training. Training concept for CAISI is detailed in the initial CAISI System Training Plan (STRAP) approved by HQ TRADOC 9 May 1997. The STRAP has been updated the US Army Signal Center and currently being staffed within the TRADOC community. An outline of the training concept is as follows:

a. The US Army Signal Center (SIGCEN) is the TRADOC proponent school for MOS 74B and MOS 31U. The Quartermaster School (QMS) is the proponent school for MOS 92, General Purpose User. Direct Support maintenance will be performed by MOS 29J/35J, with the Ordnance Missile and Munitions Center and School (OMMCS) serving as the proponent school for this MOS.

b. SIGCEN is the CAISI training evaluator in support of the New Equipment Training (NET). The training support package (TSP) will be delivered after approval by the SIGCEN for distribution to proponent schools for use in the development of resident training courses and supporting documentation, if required. The TSP has been evaluated by the SIGCEN and was found to be acceptable and in accordance with TRADOC regulatory guidance.

4.9.2.1 Institutional Training. At this time no formal institutional training is planned. However, should this requirement change, information will be updated accordingly.

4.9.2.2 Embedded Training (ET). Interactive multimedia instruction will be developed and may be used as part of NET. The ultimate goal of CAISI ET development is to provide information training and resources to users on an “on demand” basis. ET may be used to train primary users and system support representative personnel during NET and for sustainment training purposes. The intent is to provide the field with a training tool that will enable users and system support representatives to stay proficient in their MOS duties in support of CAISI. The ET may include on-line diagnostics, on-line troubleshooting, on-line reference guide, context sensitive help, etc.

4.9.2.3 Training Devices. CAISI NET will be conducted on objective CAISI hardware and software. Specific training devices are not required.

4.9.2.4 New Equipment Training (NET). The CAISI NET concept is to "Train the Trainer," and is outlined in the CAISI System Training Plan. All training products have been developed in accordance with TRADOC policies and evaluated by the TRADOC training proponent (SIGCEN) and the Materiel Developer (APM CAISI). The approved NET Plan (CEC99002) will be updated to capture changes in hardware configuration and the possibility of requirements for institutional training. Training for STAMIS users, i.e., SARSS, SAMS, ULLS, etc., and system support representatives will include at a minimum, hardware and software operations, PMCS, diagnostics, and troubleshooting. Initial NET for CAISI will occur in 4QFY02.

4.9.2.5 Displaced Equipment Training. Not Applicable.

4.9.2.6 Follow-on Equipment Training. Interactive multimedia instruction (IMI) is being developed as a sustainment training tool. Consideration will also be given to using the IMI as a part of New Equipment Training (NET). See paragraph 4.9.2.2, above.

4.9.2.7 Training Assistance.

a. Units can coordinate training assistance through:

Program Executive Office Enterprise Information Systems
Assistant Project Manager, CAISI
ATTN: SFAE-PS-I
9350 Hall Road, Suite 141
Fort Belvoir, VA 22060-5526

DSN: 656-4769 COMM: (703) 806-4769

b. Units can get customer assistance 24 hours a day by calling the Fort Lee, VA Customer Assistance Office (CAO) hotline:

DSN: 687-1051
COM: 804-734-1051
cao@lee-dns2.army.mil

4.10 Training Equipment, Devices, and Aids.

4.10.1 Training Materials. Training materials and training aids which differ from the materials and supplies used in actual CAISI operations are not required.

4.10.1.1 Training Data. Training data for institutional training, if required, will consist of the Training Support Package that includes Programs of Instruction (POI), lesson plans, Technical Manual and Software Users Manual.

4.10.1.2 Training Devices. Training devices will not be required.

4.10.1.3 Training Equipment. Users will train on the objective CAISI hardware and software. No special training equipment will be required.

4.11 Computer Resources Support.

a. Software maintenance and licensing support of COTS products, customized software, all software media, licenses, code and documentation will be provided by Software Engineering Center-Belvoir, Client Systems Engineering Division (CSED) government personnel throughout the life of the system. CSED support also includes provisions for software versions, testing of software and customer support to users.

b. The reporting documentation to be used in controlling software and hardware problems and changes for fielded configuration items will be in accordance with the CAISI Configuration Management Plan and DA PAM 25-6, Configuration Management for Automated Systems. Proposed changes to the fielded hardware will be reviewed and approved by the Configuration Control Board (CCB) in accordance with DA PAM 25-6. Emergency software problems will be reported telephonically to the CAO, DSN 687-1051, and commercial (804) 734-1051.

c. Emergency software problems will be reported telephonically to CAISI Software Help Desk, through the Customer Assistance Office at DSN 687-1051, Commercial 804-734-1051; e-mail: CAO@lee.army.mil

4.11.1 Computer Resource Management Plan (CRMP. A CRMP is not required.

4.11.2 System Software Requirements. CAISI system software consists of CAISI admin software developed by Parrot Systems and software that is COTS, either available free to the Government, included as part of the operating system or with hardware components and that which must be licensed. Listing of all software included with the wireless configuration is shown at Tables 2.2-1, 2.2-2, 2.2-3. CAISI software is being developed in compliance with Joint Technical Architecture/Army Technical Architecture standards. CAISI also will conform with various DoD standards related to logistical functions and will be in compliance with computer-aided acquisition and logistic support standards.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 5

READINESS REPORTING REQUIREMENTS

5.1 Reporting Requirements. The need for CAISI readiness reporting criteria is to be determined. When decision has been made, documentation will be updated accordingly.

5.2 Readiness Reporting Data (AR 220-1 and AR 700-138).

5.2.1 Pacing Item. To be determined.

5.2.2 AR 220-1 or AR 700-138 Reportable. To be determined

5.2.3 Equipment Readiness Code (ERC). To be determined.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 6

SAMPLE DATA COLLECTION

6.1 Sample Data Collection (SDC). Not applicable.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 7

SUPPORT REQUIRED FROM THE GAINING MACOM

7.1 Pre-fielding Support. Prior to the receipt of the CAISI Wireless hardware, the gaining MACOM will plan for and provide the following support:

a. Appointment of a MACOM Team Leader (MTL) to coordinate and monitor the implementation of the MFA and MOA.

b. Site preparation, as required, in the MOA with PEO EIS, for each installation.

c. Obtain required expendable and non-expendable supplies and documentation to support the CAISI Wireless hardware.

7.2 Deprocessing and Fielding Support. During deprocessing and actual fielding of the CAISI Wireless hardware, the gaining MACOM will provide the following:

a. An on-site representative for each installation to coordinate the fielding activities.

b. Gaining installation personnel to conduct/participate in:

-Deprocessing, inventory, installation, acceptance, and hand-off

-Acceptance testing

-On-the-job training

-Facilities and services, as required by the MOA.

7.3 Post Fielding Support. The gaining MACOM will complete DA Form 5666-R (Gaining Command Fielding Evaluation) after all fielding requirements are completed and the CAISI Wireless hardware is accepted by the gaining installations. The evaluation will be submitted within 30 days after acceptance.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 8

SUMMARY

8.1 Objective. The objective of this MFP is to present a single stand-alone document which consolidates the schedules, responsibilities, and procedures required to field the CAISI Wireless hardware configuration.

8.2 System and Logistics Support Summary.

8.2.1 System Summary. The CAISI Wireless configuration replaces the CAISI-Mid-Term program fielded to the Active Army, US Army National Guard and US Army Reserves. Objective hardware will be COTS/NDI. The hardware is designed to provide an automated interface for all CSS users to connect to the tactical and commercial data networks. The CAISI device will concentrate large numbers of CSS users into a single device at various support locations to optimize the limited number of external connections available to connect to tactical networks.

8.2.2 Logistics Support Summary. The Depot/FRA will provide maintenance support for the life of the hardware. Unit level personnel will perform limited PMCS as identified in the applicable Operations Manual or commercial manual to fault isolate to the LRU level. System Support Representatives will provide maintenance support above the unit level, and DSU SSA personnel will perform exchange transactions. Depot personnel will accomplish all depot level repairs and replacement procedures.

8.3 Extension Priority Sequence. CAISI will be fielded in accordance with the Department of Army Sequence Listing managed by Deputy Chief of Staff for Operations in coordination with Deputy Chief of Staff for Logistics. Fielding will begin with the replacement of the CAISI-MT systems in 4QFY02.

8.4 Fielding Command Commitment. PEO EIS is dedicated to ensuring user satisfaction and is committed to providing successful fielding of the CAISI system.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 9

APPENDICES

9.1 Agreements. The following examples of a MFA and a MOA represent the information required for agreements between APM CAISI, the MACOM, PEO EIS, and the gaining installation. When these agreements are developed and finalized, they will be incorporated into this MFP.

9.1.1 Sample MFA.

SAMPLE

MATERIEL FIELDING AGREEMENT
BETWEEN
MACOM
AND
PROGRAM EXECUTIVE OFFICE ENTERPRISE INFORMATION SYSTEMS

1. PURPOSE

This MFA documents concurrence of the Program Executive Office Enterprise Information Systems (PEO EIS) and MACOM and is the primary governing document in the fielding of the Combat Service Support Automated Information Systems Interface (CAISI) hardware.

2. SCOPE

This MFA becomes part of the Materiel Fielding Plan (MFP) when signed by the authorized representatives of the fielding command and the gaining command. It applies to all fielding of the CAISI equipment to MACOM unless otherwise stated herein or until this MFA is superseded.

3. POLICY

Initial fielding of the CAISI Wireless hardware to MACOM units will be accomplished using the Total Package Fielding concept. This approach will consist of depot maintenance support to include maintenance and supply procedures described below:

4. RESPONSIBILITIES

a. APM CAISI

(1) Provide a Chief of Installation (COI) to coordinate the fielding/extension effort between PEO EIS, the gaining MACOM installations, extension teams, APM CAISI representatives, and applicable contractor personnel.

(2) Conduct Installation Surveys (IS) to ensure the gaining installations are prepared to receive the CAISI hardware.

(3) Monitor the hardware acceptance testing. Government acceptance will include a joint inventory, non-functional examination, and hardware burn-in/validation test.

(4) Coordinate new equipment transition/conversion training for gaining units.

(5) Coordinate the extension of CAISI Wireless software to the installations with MACOM, CAISI Wireless software developers, and functional proponents.

(6) Provide for quick reaction assistance to gaining installations for the life cycle of the hardware.

(7) Coordinate all logistical support elements to ensure timely and responsive support for the fielding of the CAISI equipment.

(8) Continue to develop and implement all elements of integrated logistic support during the life cycle of the CAISI Wireless hardware.

(9) Prepare and submit an After Action Report after (MACOM) and installation acceptance.

b. PEO EIS

(1) Prepare the CAISI MFP incorporating this MFA. Copies of this MFP will be furnished to MACOM for distribution to the gaining installations upon completion. Changes and/or updates to the MFP are expected to occur and will be provided to MACOM for distribution.

(2) Order all equipment for delivery to each installation prior to the required delivery date (RDD).

c. MACOM

(1) Appoint a MACOM single point of contact (POC) for coordinating and resolving CAISI Wireless hardware issues with PEO EIS.

(2) Provide facilities and services as required in the MFA and Memorandum of Agreement (MOA).

(3) Accomplish the necessary site preparation in accordance with the MFA and MOA.

(4) Provide an on-site MACOM Representative(s) for each site to be fielded the CAISI Wireless hardware.

(5) Ensure a representative is appointed for each installation receiving the CAISI Wireless hardware to coordinate the fielding activities with PEO EIS.

(6) Provide gaining unit personnel to participate in:

(a) Deprocessing, inventory, acceptance, and handoff.

(b) Acceptance testing, to include the accountable Property Book Officer (PBO), who will sign for the CAISI Wireless hardware.

(c) New Equipment Training.

(d) CAISI Wireless software conversion, to include receiving functional training with CAISI applications.

(7) Provide CAISI and supporting infrastructure status and utilization reports as required during the fielding/extension process.

(8) Prepare a Mission Support Plan (MSP) and participate with the fielding and supporting commands in the coordination of the Materiel Requirements List (MRL) and supportability.

(9) Prepare and submit the Fielding Evaluation Report.

5. ACCEPTANCE

Upon completion of the Hardware Acceptance Test (HAT) and inventories of the CAISI hardware, the unit PBO will accept and sign for the hardware. This signature acknowledges receipt of the hardware, and that the hardware is complete and operational. A copy of the PBO appoint orders and a signature card authorizing him/her to sign for and accept custody of the hardware must be presented to the COI prior to signing for the hardware (to include communications equipment).

6. IMPLEMENTATION

This Materiel Fielding Agreement will become effective upon signature by all parties. This agreement will be reviewed as required and may be amended at any time by mutual consent.

Gaining Command APM CAISI

9.1.2 Sample MOA.

MEMORANDUM OF AGREEMENT
BETWEEN
PROGRAM EXECUTIVE OFFICE ENTERPRISE INFORMATION SYSTEMS
PRODUCT OFFICE COMBAT SERVICE SUPPORT AUTOMATED INFORMATION SYSTEMS
INTERFACE
MACOM
AND INSTALLATION

SUBJECT: Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Installation Survey.

1. Purpose: This Memorandum of Agreement (MOA) records actions required prior to and during the fielding of the CAISI Wireless hardware. It documents agreements made between the Project Office Tactical Management Information Systems (PEO EIS), Assistant Project Manager (APM) CAISI, MACOM, and (Installation, ST).

2. References:

a. MSG, PEO EIS, SFAE-PS-TPF, (DTG XXXXXXZ MM Y), Subject: Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Pre-Installation Survey Briefing for (Installation, ST), (DD MM YY).

b. MSG, PEO EIS, SFAE-PS-TPF, (DTG XXXXXXZ MM Y), Subject: Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Installation Survey Briefing for (Installation, ST), (DD MM YY).

3. Facts:

a. A Pre-Installation Survey briefing was conducted during the period (DD-DD MM YY) at (Installation, ST). It included functional briefings on the CAISI Wireless hardware and information to be used by the installation in preparation for the upcoming Installation Survey.

b. An Installation Survey was conducted during the period (DD-DD MM YY) at (Installation, ST) for the upcoming installation of computer systems and the subsequent extension of the CAISI equipment.

4. Scope: This MOA is applicable to APM CAISI, PEO EIS, MACOM, and (Installation).

5. Understandings, Concerns, Agreements, Support, and Resource Requirements:

a. Major concerns of PEO EIS are:

List all concerns of PEO EIS in summary form here and cross-reference to a CAISI General Fact Sheet.

(1) A work area and sufficient administrative support for the System Extension Team must be available during the extension and conversion. See CAISI General Fact Sheet G-1.

(2) Completion of all work required preparing facilities receiving CAISI hardware must occur at least 30 days prior to equipment delivery. See CAISI General Fact Sheet G-2.

(3) Communications lines to support CAISI at each activity must be upgraded or installed. See CAISI General Fact Sheet G-3.

b. Major concerns of APM CAISI are:

List all concerns of APM CAISI in summary form here and cross reference to a CAISI Fact Sheet.

c. Major concerns of (Installation) are:

List all concerns of the installation in summary form here and cross-reference to an Installation Fact Sheet.

6. APM CAISI will provide the following:

a. Funding for acquisition of all equipment listed in this MOA and/or authorized spares.

b. Listing of equipment to be installed for the CAISI Wireless hardware.

c. Funding for the Travel Duty (TDY) involved when (Installation) personnel are requested by APM CAISI to support the development and deployment of the CAISI Wireless hardware.

d. Continuous operating software support and applications software (modules) support for the life of the CAISI Wireless program.

e. Documentation and upgrades of CAISI applications for the life of the CAISI Wireless hardware.

7. The subject area Functional Proponent will provide functional training on the CAISI Wireless equipment to the appropriate (Installation) functional office for each subject area.

8. (Installation) and all signatory agencies must ensure actions noted in attached fact sheets, memorandums, and checklists are routed through the installation's CAISI Wireless point of contact (POC). The CAISI POC will monitor the status of all outstanding actions and ensure their completion in accordance with established milestones.

9. The personnel listed on the signature page agree that the information in Enclosure 1 through Enclosure X and this MOA are correct to the best of their knowledge.

10. This MOA is effective from (DD MM YY) to the end of the CAISI extension (that date to be determined and approved by the installation prior to the beginning of the extension).

Enclosures
(as required)

SIGNATORY NAME
Signatory's Title

SIGNATORY NAME
Signatory's Title

9.2 Key Correspondence.

a. Combat Service Support Automated Information System Interface (CAISI) Decision Memorandum approved 26 March 1997

b. Configuration Control Board with Engineering Change Proposal, 9 February 2001.

9.3 Associated Plans.

a. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) System MANPRINT Management Plan.

b. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) System Training Plan.

c. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Test and Evaluation Master Plan (TEMP).

d. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Standard Engineering Installation Package (SEIP).

e. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Data Collection Plan.

f. Combat Service Support (CSS) Automated Information Systems Interface (CAISI) Information System Design Plan.

9.4 Gaining Command Checklist. All gaining commands will ensure that each unit receiving the CAISI completes DA Form 5666-R, Gaining Command Fielding Evaluation.

9.5 Warranties. CAISI COTS/NDI hardware will be repaired by the DEPOT/FRA to include handling of all warranty actions. See Section 4 for information concerning the CAISI maintenance concept. Specific warranties for CAISI hardware components are:

Cisco Aironet BR352 Wireless Bridge	1 year
ADC PairGain Megabit Modem 300SBP DSL Bridge	1 year
AirFortress 1100 Inline Encryptor	1 year
Addtron Microhubs	
UPS	2 years
Cisco Aironet WGBR352 Workgroup Bridge	1 year
Lantronix MSS-100 (Legacy Support Adapter)	5 years
BEFSR81 Internal Router	1 year
MITAC 7020 Notebook Computer	1 year
Panel Antennas	1 year

Omni-Directional Antennas 1 year

9.6 Components of End Item (COEI) List.

9.6.1 Hardware Configuration. The hardware configuration for the CAISI equipment is as follows:

Table 9.6.1-1
CAISI Components of End Item (COEI)

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
5895-01-487-4020 LIN Z53098	CAISI BRIDGE Module – Processor, Communications Gateway A3269821	CBM Transit case	N/A	Various
	CBM Transit Case Ruggedized Toby-CBM ECS # 11522			1
	ONE CBM CONSISTS OF:			
	One CBM Chassis	Main compartment	N/A	
	CONSISTING OF:			
	Wireless Bridge Cisco Aironet AIR-BR352	CBM Chassis		1
	DSL Bridge ADC 300SBP (formerly Pairgain)	CBM Chassis		1
	Hub, Addtron or Farallon, 9-port (8 10Base-T and 1 10Base-2 port)	CBM Chassis		2
	Inline Encryptor Air Fortress AF-1100	CBM Chassis		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	Power & Injector for wireless bridge Cisco AIR-PWR 34-1537-01 (Power supply) Injector – Cisco AIR-PWRINJ	CBM Chassis		1
	Power Supply for DSL bridge	CBM Chassis		1
	Power Supply for hubs & encryptor	CBM Chassis		1
	"T" Connector AIM27-8140	CBM Chassis		2
	50-ohm Terminator AIM27-9008	CBM Chassis		2
	18-inch coaxial 10Base-2 Cable	CBM Chassis		1
	Lightning Arrestor Polyphaser PSX	CBM Chassis		1
	12-inch RF Antenna Cable Talley SRCA24GP-1	CBM Chassis		1
	Ethernet Cables (2 red and 2 white)	CBM Chassis		2 red 2 white
	40-inch break-apart Whip Antenna ODN12-2400BA	Top compartment		1
	Double "N" Cable Adapter (Barrel Connector)	Top compartment		1
	UPS Tripplite 200 UPS	Main compartment		1
	25-foot RF Antenna Cable Andrew Corp F2A-PNMNR-25-USA	Top compartment		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	Antenna Bracket	Top compartment		1
	7-inch Panel Antenna AAI00079	Top compartment		1
	35-foot RF Antenna Cable Andrew Corp F2A-PNMNR-35-USA	Top compartment		1
	Grounding Strap	Top compartment		1
	3-prong Power Cord	Top compartment		1
	2-prong Power Cord	Top compartment		2
	CAT-5 Ethernet Cables (1 red and 1 white)	Top compartment		1 red 1 white
5895-01-487-4020 LIN Z00056	CAISI Client Module – Processor, Group, Signal Data A3269822	CCM Carrying Case		Various
	CCM Carrying Case Vinyl Toby-CCM pack			
	ONE CCM CONSISTS OF:			
	CCM Chassis	Chassis compartment	N/A	1
	CONSISTING OF:			
	Multi-client Radio Adapter – CISCO Aironet WorkGroup Bridge (WGB342R / WGB352)	CCM Chassis		1
	Inline Encryptor Air Fortress AF-1100			

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	Hub, Addtron or Farallon, 9-port (8 10Base-T and 1 10Base-2 port)	CCM Chassis		1
	Power Supply for Radio, Encryptor & Hub	CCM Chassis		1
	"T" Connector AIM27-8140	CCM Chassis		1
	50-ohm Terminator AIM27-9008	CCM Chassis		1
	Lightning Arrestor Polyphaser PSX	CCM Chassis		1
	12-inch RF Antenna Cable Talley SRCA24GP-1	CCM Chassis		1
	CAT-5 Ethernet Cables (1 red and 1 white)	CCM Chassis		1 red 1 white
	24-inch 9 dbi Omni-directional Whip Antenna ODN9-2400FG	Main compartment		1
	35-foot RF Antenna Cable Andrew Corp F2A-PNMNR-35-USA	Main compartment		1
	Antenna Bracket	Misc compartment		1
	White Straight-Through Ethernet Cable CAT-5	Misc compartment		
	Grounding Strap	Misc compartment		1
	2-prong Power Cord	Misc compartment		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
7025-01-487-4021	Legacy Support Adapter – Interface Unit, ADP	LSA Transit Box		8
	LSA Transit Box	TBD		
	ONE LSA CONSISTS OF:			
	Micro Serial Server 100/10 with 110-220 power supply MSS 100-01	LSA Transit Box		1
	9-to-25 pin Null Modem Cable RS232 Null cable	LSA Transit Box		1
	White Straight-Through Ethernet Cable CAT-5	LSA Transit Box		1
	Power Supply, 5V	LSA Transit Box		1
	3-prong Power Cord	LSA Transit Box		1
5999-01-487-2681 LIN Z00057	Accessory Kit, Electronics Equipment A3269820	1 transit case and 2 carrying cases: SSR Transit Case Antenna Carrying Case Antenna Mast Carrying Case		1
	Transit Case for SSR, Ruggedized, Rolling Toby-SSR Box ECS #11671 SSR Transit case consists of:			
	UPS Tripplite 200 UPS	Main compartment		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	SSR Notebook – MITAC 7020 / 7251 Alternate models must be tested by CAISI	Main compartment		1
	Baseline CD Version	Main compartment (under notebook)		1
	Wireless Bridge Cisco Aironet AIR-BR352	Main compartment		1
	Multi-Client Radio Adapter – CISCO Aironet WorkGroup Bridge (WGB342R / WGB352R)	Main compartment		1
	DSL Bridge – Digital Subscriber Line Modem bridge ADC 300SBP (formerly Pairgain)	Main compartment		1
	Inline Encryptor Air Fortress, AF1100	Top Compartment		
	Cable Router / Firewall Network Translator Linksys BEFSR81	Main compartment		1
	Hub, Addtron or Farallon, 9-port (8 10Base-T and 1 10Base-2 port)	Main compartment		2
	2.2 dBi Diversity "Rabbit Ear" External Antenna AIR-ANT3342	Main compartment		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	Wireless NIC 340 Series 11 Mbps DSSS PC Card w/128-bit WEP w/o antenna AIR-LMC342 / LMC352	Main compartment		1
	Xircom Wired NIC RealPort 10/100 PC-Bus card RBE-100BTX	Main compartment		1
	10 Base-T Transceiver AT-210TS	Main compartment		1
	40-inch break-apart Whip Antenna ODN12-2400BA	Top compartment		2
	Lightning Arrestor & Bracket (Lightning Arrestor Assembly) Polyphaser PSX	Main compartment		2
59958-ND-065-024G	Grounding Strap	Top compartment		2
	12-inch RF Antenna Cable Talley SRCA24GP-1	Top compartment		2
	White Ethernet Cables (Straight-through) CAT-5	Top compartment		4
	Red Ethernet Cables Crossover cable	Top compartment		4

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	9-pin Straight-through serial extension cable (M-F) 9-pin Crossover Serial Cable (F-F)	Top compartment		1 ea
	9-to-25 pin Null Modem Cable RS232 Null cable	Top compartment		1
	Adapter Cables MMCX to N & MMCX to RPTNC	Top compartment		1 each
	Power Supply for Notebook Computer	Main compartment		1
	Power Supply, 5V, 1 lead	Main compartment		3
	Power Supply, 5V, 2 lead	Main compartment		1
	Power Supply, 5V, 3 lead	Main compartment		
	Power & Injector for Wireless Bridge Cisco AIR-PWR 34-1537-01 (Power supply) Injector – Cisco AIR-PWRINJ	Main compartment		1
	Power Supply for DSL bridge	Main compartment		1
	Power Supply for Router	Main compartment		1
	2-prong Power Cord	Top compartment		5

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	3-prong Power Cord	Top compartment		3
	Antenna Carrying Case consists of:			
	Carrying Case			1
	50-foot RF Antenna Cable F2A-PNMNR-50-USA	Outer compartments (2 in each)		4
	14-inch Panel Directional Antenna 18 dBi AAI00096	Center compartment		2
	7-inch Panel Antenna Bracket	Outer compartments (1 in each)		2
	14-inch Panel Antenna Bracket	Center compartment		2
	Double "N" Cable Adapter (Barrel Connector)	Outside pouch		4
	Antenna Mast Carrying Case consists of:			
5985-01-072-4339	Carrying Case SM-D-944752			1
5985-01-324-3461	AB-1244B/GRC 30 ft Mast kit (12 poles) A3002867 Consists of:			
	Upper Mast Section	Antenna Mast Carrying Case		5
	Lower Mast Section	Antenna Mast Carrying Case		5
	Upper Mast Adapter Section (Red Ring)	Antenna Mast Carrying Case		1
	Lower Mast Adapter Section (Blue Ring)	Antenna Mast Carrying Case		1

NATIONAL STOCK NUMBER	DESCRIPTION PART NO. CAGE	LOCATION	USABLE ON CODE	QTY REQ'D
	36-Foot Guy Rope (Blue Clips)	Antenna Mast Carrying Case		4
	42-Foot Guy Rope (Red Clips)	Antenna Mast Carrying Case		4
8130-00-355-7616	Reel Unit For Guy Ropes (Containing Above, Four Guy Ropes Per Reel Unit) RL-28	Antenna Mast Carrying Case		2
	Guy Stakes	Antenna Mast Carrying Case		4
	Gin Pole Swivel Base	Antenna Mast Carrying Case		1
	Base Plate	Antenna Mast Carrying Case		1
	Base Plate Pins	Antenna Mast Carrying Case		2
	Guy Rings (One Red, One Blue)	Antenna Mast Carrying Case		2
	Cable Puller (no longer issued)	Antenna Mast Carrying Case		1
	2.5 Pound Sledge Hammer	Antenna Mast Carrying Case		1

9.6.2 Software Configuration. The software configuration for the CAISI equipment consists of the following:

Table 9.6.2-1
CAISI Licensed COTS Software Listing

Software	Purpose
WS_Watch	*Allows users to monitor the network connectivity in a graphical mode, displaying network nodes and hosts (NES, gateways, routers, CAISI hubs, TCP/IP hosts, etc.) as icons.* *Node icons will change color to represent loss of connectivity and allow users to troubleshoot specific lines or systems on the network.*
BLAST	*Terminal emulation program that allows serial connections to the CAISI, similar to the way the non-network capable STAMIS devices connect to CAISI.* *Can be used for configuration and troubleshooting.*
TJ Ping	*Provides a graphical user interface for standard ping functionality. Tests the network for function and speed. It allows you to do three things – ping, lookup and trace.*
IP Address Assistant (IPAA)	*Subnet calculator and analyzer. This tool helps you compute network subnet masks.*
Norton Anti-Virus	*Anti-virus protection (DoD site license – free for use within DoD).*

Table 9.6.2-2

CAISI Free COTS Software Listing

Acrobat Reader	Portable data format (*.pdf) file viewer. Free from Adobe Systems, Inc.
Microsoft Office Viewers	*Viewers for Microsoft Work, Excel, PowerPoint, and Access will allow users to view, but not edit, data files from the listed Microsoft Office programs. Free from Microsoft, Inc.*
WS_FTP	*Graphical user interface for a standard FTP client program. Free for Government use, from Ipswitch, Inc.*

Table 9.6.2-3

CAISI Included COTS Software Listing

Internet Explorer (Windows component)	*Allows CSSAMO and SSRs to connect to the CAISI components to remotely perform system administration tasks. Web browsers that can be used are Internet Explorer or Netscape.*
Telnet client (Windows component)	*Allows CSSAMO and SSRs to connect to the CAISI components to remotely perform system administration tasks.*
Hyperterm (Windows component)	*Allows CSSAMO and SSRs to connect to the console ports of CAISI components for configuration. Component of Internet Information Server (IIS) and all versions of Windows 2000.*
FTP server (Windows component)	*File Transfer Protocol server, allows users to transfer files to and from the CSSAMO notebook. Component of IIS and all versions of Windows 2000.*
TFTP server	*Trivial File Transfer Protocol server allows the CSSAMO or SSRs to load new firmware images onto the Lantronix LSA devices.*
Xircom NetPort card drivers	*Driver for the PCMCIA adapter.*
Cisco Aironet wireless card drivers and utilities	*Drivers and utilities to configure and monitor the Cisco Aironet PC4800 wireless NIC and bridges and to monitor segments of the wireless network.*
Lantronix LSA drivers and utilities	*Drivers and utilities to configure and monitor the Lantronix MSS-100 serial servers.*

9.7 Basic Issue Items (BII) List. The System Support Package (SSP) will include the following:

TM 11-5895-1691-12 CAISI Technical Manual
TB 11-5895-1691-12 CAISI Software Users Manual

9.8 Additional Authorizations List (AAL). The following items, although not fielded with the CAISI Mid Term, may be used to establish alternative means of connectivity with the CAISI hub. Listing of these items in the MFP does not authorize acquisition of the below items:

Table 9.8-1 CAISI Additional Authorizations List (AAL)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION	(3) SOURCE OF SUPPLY	(4) UNIT PRICE
	ACCESSORIES/OPTIONS		
	Camouflage pole		
5975-00-344-4258	Grounding Rod	S9G (DLA)	$92.24
	Helmet (Kevlar)		
4240-00-052-3776	Goggles, Industrial	GSA	$2.03
	Gloves		

9.9 Transportability Analysis and Approval.

9.9.1 Transportability Requirements/Constraints. EIS procured COTS/NDI hardware are not transportability problem items. Therefore, transportability approval is not required in accordance with US Army Military Traffic Management Command, Transportation Engineering Agency memorandum, dated 19 January 1995. CAISI will deploy with tactical units during wartime. Configured for movement in its transit cases, the system will be transportable worldwide by air, ground, rail, and water as restrained cargo in tactical vehicles over rough terrain or containerized or palletized with other unit equipment for delivery at specific locations.

9.9.2 Test Requirements/Results. No Military Traffic Management Command (MTMC) rail or other certification testing requirements for the CAISI hardware is required.

9.9.3 Inter-service Requirements. No Inter-service requirements have been identified for the CAISI hardware.

9.9.4 Lifting/Tie-down/Handling Requirements. CAISI hardware will be transportable as restrained cargo in tactical vehicles over rough terrain, containerized or palletized cargo for shipment via commercial or Government conveyances with appropriate blocking, bracing, and other packaging requirements that conform to Government acceptable practices.

9.9.5 Resource Requirements/Availability. Transit cases will be used to ship or deploy the CAISI hardware.

9.9.6 Logistic Support Analysis (LSA)/Logistic Support Analysis Record (LSAR) Interface. A LSA/LSAR interface is not required.

9.10 Technical Manuals. Technical Manual –12 and Software User Manual –12 will be developed for the CAISI Wireless hardware configuration.

TM 11-5895-1691-12 CAISI Technical Manual

TB 11-5895-1691-12 CAISI Software Users Manual (SUM)

9.11 Related MFP. CAISI will have multiple external interfaces with other automated systems. The MFP for these Automated Information Systems (AIS) will contain information concerning the AIS interface with CAISI. The following AIS and hardware platforms will interface with the CAISI Wireless hardware:

a. Corps/Theater Automatic Data Processing Service Center - Phase II (CTASC-II)

b. Standard Army Ammunition System (SAAS)

c. Standard Property Book System - Redesign (SPBS-R)

d. Standard Army Maintenance System (SAMS)

e. Army Human Resource System (AHRS) formerly SIDPERS

f. Theater Army Medical Management Information System (TAMMIS)

g. Unit Level Logistics System (ULLS)

h. Department of the Army Movements Management System - Redesign (DAMMS-R)

i. Combat Service Support Control System (CSSCS)

j. Standard Army Retail Supply System (SARSS)

k. Global Combat Support System-Army/Tactical (GCSS-A/T)

l. Medical Communications for Combat Casualty Case (MC4)

9.12 Sample Data Collection (SDC) Concept Paper. Not Applicable.

9.13 Acronyms.

AAL	Additional Authorizations List
ADP	Automatic Data Processing
ADPE	Automatic Data Processing Equipment
AHRS	Army Human Resource System
AIS	Automated Information Systems
AMC	Army Materiel Command
APM	Assistant Project Manager
AR	Army Regulation
ARA	Assigned Responsible Agency
ARP	Address Resolution Protocol
ASCII	American Standard Code for Information Interchange
ASD	Application System Developer
ASIOE	Associated Support Items of Equipment
ATEC	Army Test and Evaluation Command
AUI	Attachment Unit Interface
BII	Basic Issue Items
BIND	Berkeley Internet Name Domain
BLAST	Blocked Asynchronous Transmission
BOIP	Basis of Issue Plan
BOIPFD	Basis of Issue Feeder Data
BOM	Bill of Materials
BPA	Blanket Purchase Agreement
BSA	Brigade Support Area
BSM	Basic Sustainment Materiel
BSN	Brigade Support Node
CAISI	Combat Service Support Automated Information Systems Interface
CAISI-MT	Combat Service Support Automated Information Systems Interface – Mid Term
CAO	Customer Assistance Office
CASCOM	Combined Arms Command
CATS	Combined Arms Training Strategy
CBM	CAISI Bridge Module
CBTDEV	Combat Developer
CCB	Configuration Control Board
CCM	CAISI Client Module
CCN	Commercial Communication Network
CECOM	Communications Electronics Command
CJS	Civilian Job Series
CMP	Configuration Management Plan
COEI	Components of End Item
COI	Chief of Installation
COMM	Communications
CONUS	Continental United States
COTS	Commercial-off-the-shelf
COTS/NDI	Commercial off-the-shelf/Nondevelopmental Items
CPU	Central Processing Unit
CRMP	Computer Resources Management Plan
CSED	Client System Engineering Division
CSO	Customer Support Office
CSS	Combat Service Support
CSS-NTF	Combat Service Support - Near Term Fix
CSSAMO	Combat Service Support Automation Management Office
CSSCS	Combat Service Support Control System
CTASC-II	Corps/Theater Automatic Data Processing Service Center - Phase II

DA	Department of the Army
DAMMS-R	Department of the Army Movements Management System - Redesign
DAMPL	Department of the Army Master Priority List
DCSLOG	Deputy Chief of Staff for Logistics
DCSOPS	Deputy Chief of Staff for Operations
DDN	Defense Data Network
DEMIL	Demilitarization
DoD	Department of Defense
DODAAC	Department Of Defense Activity Address Code
DOS	Disk Operating System
DS	Direct Support
DSL	Digital Subscriber Line
DSN	Defense Switch Network
DSU	Direct Support Unit
EAC	Echelons Above Corps
ECP-S	Engineering Change Proposal-Software
EIR	Equipment Improvement Recommendation
EIS	Enterprise Information Systems
ERC	Equipment Readiness Code
ET	Embedded Training
EUSA	Eighth US Army
FA	Functional Administrator
FDDI	Fiber Distributed Data Interface
FES	Forced Entry Switch
FIPS	Federal Information Process Standard
FORSCOM	Forces Command
FP	Functional Proponent
FRA	Forward Repair Activity
FSCM	Federal Supply Code for Manufacturers
FY	Fiscal Year
GOSIP	Government Open Systems Interconnection Profile
GS	General Support
GSA	General Services Administration
HAT	Hardware Acceptance Test
HQ	Headquarters
ICTRA	In-Theater Computer Repair Activity
IEEE	Institute of Electrical and Electronics Engineers
IKP	Instructor and Key Personnel
IMMA	Installation Maintenance Management Activity
INE	In-Line Encryption
INSCOM	Intelligence Command
IOC	Initial Operational Capability
IP	Internet Protocol
IPR	In Process Review
IS	Installation Survey
ISEC	Information Systems Engineering Command
ISSA	Installation Supply Support Activity
IV&V	Independent Validation and Verification
LAR	Logistics Assistance Representative
LAN	Local Area Network
LAO	Logistics Assistance Office
LAP	Logistic Assistance Program

LEN	Large Extension Node
LIN	Line Item Number
LOGSA	Logistics Support Activity
LRU	Line Replaceable Unit
LSA	Logistics Support Area
LSA	Legacy Support Adapter
MAC	Maintenance Allocation Chart
MACOM	Major Army Command
MANPRINT	Manpower and Personnel Integration
MATDEV	Materiel Developer
MB	Mega Byte
MC4	Medical Communications for Combat Casualty Care
MFA	Materiel Fielding Agreement
MFP	Materiel Fielding Plan
Mhz	Mega Hertz (millions of hertz)
MILNET	Military Network
MIL STD	Military Standard
MNS	Mission Need Statement
MOA	Memorandum of Agreement
MOI	Memorandum of Instruction
MON	Memorandum of Notification
MOS	Military Occupational Specialty
MRL	Materiel Requirements List
MSC	Major Subordinate Command
MSE	Mobile Subscriber Equipment
MSP	Mission Support Plan
MTBF	Mean Time Between Failures
MWO	Modification Work Order
NCO	Non-Commissioned Officer
NCS	Node Center Switch
NDI	Non-Developmental Item
NEOF	No Evidence of Failure
NES	Network Encryption System
NET	New Equipment Training
NSN	National Stock Number
O&O	Operational and Organizational
OCONUS	Outside the Continental United States
OEC	Operational Evaluation Command
OEM	Original Equipment Manufacturer
OMMCS	Ordnance Missile and Munitions Center and School
OPPM	Outside Principal Period of Maintenance
ORD	Operational Requirements Document
ORF	Operational Requirement Float
OS	Operating System
PA	Proponent Agency
PAM	Pamphlet
PAS	Personnel Automation Section
PBO	Property Book Officer
PCMCIA	Personal Computer Memory Card International Association
PEO	Program Executive Officer
PHS	Packaging, Handling, and Storage
PIS	Pre-Installation Survey
PLL	Prescribed Load List
PM	Project/Program/Product Manager
PMCS	Preventive Maintenance Checks and Services

PO	Project Office(r)
POC	Point of Contact
POI	Program of Instruction
POL	Petroleum, Oils, and Lubricants
POSIX	Portable Operating Systems Interface for Computer Environments
PPM	Principal Period of Maintenance
QMS	U.S. Army Quartermaster School
QQPRI	Qualitative and Quantitative Personnel Requirements Information
RAM	Random Access Memory
RCF	Repair Cycle Float
RDD	Required Delivery Date
RMA	Return Maintenance Authorization
SAAS	Standard Army Ammunition System
SAMS	Standard Army Maintenance System
SARSS	Standard Army Retail Supply System
SBIS	Sustaining Base Information Systems
SCX	STAMIS Computer Exchange
SDC	Sample Data Collection
SEIP	Standard Engineering Installation Package
SEN	Small Extension Node
SF	Standard Form
SIGCEN	U.S. Army Signal Center
SIMM	Single In-Line Memory Module
SMMP	System MANPRINT Management Plan
SPBS-R	Standard Property Book System - Redesign
SSA	Supply Support Activity
SSP	System Support Package
SSR	System Support Representative
SSSC	Self Service Supply Center
STAMIS	Standard Army Management Information Systems
STRAP	System Training Plan
T&T	Transportation and Transportability
TACMIS	Tactical Management Information Systems
TAMMIS	Theater Army Medical Management Information System
TAMMS	The Army Maintenance Management System
TAV	Total Asset Visibility
TBD	To Be Determined
TCN	Tactical Communication Network
TCP	Transmission Control Protocol
TDA	Tables of Distribution and Allowances
TDR	Time Domain Reflectometer
TDY	Travel Duty
TEMP	Test and Evaluation Master Plan
TM	Technical Manual
TMDE	Test, Measurement, and Diagnostic Equipment
TOE	Tables of Organization and Equipment
TPN	Tactical Packet Network
TRADOC	U.S. Army Training and Doctrine Command
TRI-TAC	Tri-Service Tactical Communications
TTA	Tactical Terminal Adapter
TYAD	Tobyhanna Army Depot
UIC	Unit Identification Code

ULLS	Unit Level Logistics System
UNIX	A Multiprocessing Operating System Identified by Trademark of Bell Laboratories
UPS	Uninterruptible Power Supply
USAISEC	US Army Information Systems Engineering Command
USAISSC	US Army Information System Software Center
USAMC	US Army Materiel Command
USAR	US Army Reserves
USAREUR	US Army Europe
USARPAC	US Army Pacific
USARSO	US Army South
USARSOC	US Army Special Operations Command
USNG	US Army National Guard
VEE	Virtual End to End

9.14 Classified Information and Security. The following paragraphs summarize the security features of CAISI as documented in the CAISI Security Plan/Accreditation Document. The information below is provided for information purposes. For additional detail, see the CAISI Security Features User's Guide, Trusted Facility Manual, and Security Plan/Accreditation Document.

9.14.1 Classified Information. Classified information will not be processed on, ported to, or included in data transmitting through the CAISI device. The use of a Network Encryption System (NES) device allows the CAISI to meet the SECRET HIGH requirements of the Tactical Packet Network (TPN).

9.14.2 Security.

9.14.2.1 CAISI has been granted a generic accreditation to process Sensitive But Unclassified (SBU) information in the System High Mode of operation. While CAISI does not generate any of the categories of information listed in AR 380-19 as US1, it does facilitate the transfer of such information between STAMIS devices and will therefore meet those requirements.

9.14.2.2 CAISI will operate at Systems High Security Mode. In this mode all users of CAISI will have the appropriate clearance but not necessarily the need to know for all information on CAISI. The "need to know" is not based on security concerns about the information contained within or passed through the CAISI, but on the need to administratively safeguard the audit information from those being audited as well as to prevent the general purpose user (GPU) and Terminal Area Security Officer (TASO) from activities properly relegated to the maintainers and developers.

9.14.3 Trusted Class. CAISI has been developed as a Class C2 System, in accordance with AR 380-19, paragraph B-3. The C2 requirements will be levied against the Central Processing Function of CAISI. This is the function that will have a user interface and control the CAISI software activities. This portion of CAISI performs as any other automated information system (AIS).

The Ethernet repeater and terminal server do not perform traditional AIS functions. They are more networks oriented, however, CAISI is not a component of the MSE TPN. As the Project Office for the TPN has stated that the MSE TPN extends only down to the Network Encryption System (NES). As CAISI is located on the "outside" of the NES it is not a part of the TPN, and is not required to enforce the security policy of the TPN. Nonetheless, CAISI will perform identification and Authentication (I&A) on systems attempting to access the TPN through CAISI.

9.14.4 Security Policy.

9.14.4.1 Discretionary Access Control. CAISI will enforce discretionary access control through unique user identifications assigned to each user on the CAISI. This process will assign users to a group within CAISI. These groups will be the GPU, TASO, and Software Developer/Maintainer. CAISI will enforce privileges based on the user's group and resultant authorized activity.

9.14.4.2 Object Reuse. CAISI will not permit the GPU or TASO direct access to the operating system. This will deny users the ability to circumvent the privileges assigned to their group by the application software or the operating system. CAISI will rely on the multi-user

operating system to enforce subject access to objects and to insure that calls on reused objects will not permit residual data from contaminating current data.

9.14.5 Accountability.

9.14.5.1 Identification and Authentication (I&A). The CAISI TASO is responsible for verifying authorized users of CAISI. Only authorized users will have access to CAISI. Each user will be assigned a unique user ID. Each user will be required to establish and utilize a password to authenticate the user's identity. The password will be consistent with AR 380-19 requirements. These passwords will be maintained on CAISI in an encrypted form. No personnel other than the individual user will know that user's password. The TASO will delete any user who is no longer authorized access to CAISI.

9.14.5.2 Audit. CAISI will generate, maintain, and protect from modification or unauthorized access an audit trail. CAISI will audit security critical events including, but not limited to:

Each attempted log-on and log-out
Modifications to the CAISI configuration

For each audited event, CAISI Wireless will log the date and time of the event, user id (if applicable), type of event, and success or failure of the event.

9.14.6 Assurance.

9.14.6.1 Operational Assurance. GPU and TASO of CAISI will not be allowed access to the operating system. Their activities will be limited to that set of capabilities that are inherent to the CAISI Wireless application software for which their group has privileges. This design feature will protect the Trusted Computing Base from tampering by GPU and the TASO.

9.14.6.2 Life-Cycle Assurance. A Certification Test Agent will be appointed. He will be responsible for developing a Certification Test Plan, Test Procedures, and the conduct of the Certification Test Plan. The Certification Test shall be done to assure that the security requirements have been met and that there are no obvious ways for an unauthorized user to bypass or otherwise defeat the security protection mechanism of the Trusted Computing Base. Upon completion of maintenance or modification to the software (other than normal application level parameter changes), the software will be tested to ensure that the changes did not affect the security operation of the system.

9.14.7 Documentation.

9.14.7.1 Security Features User Guide. A Security Features User Guide (SFUG) will be published to support the CAISI General Purpose Users. The SFUG will describe the function and use of the security mechanisms within the CAISI.

9.14.7.2 Trusted Facility Manual. A Trusted Facility Manual will be prepared for the CAISI TASO. This document will focus on those security activities that are assigned to the TASO. These functions are documented separately to prevent this information from being accessible to the GPU as a possible aid in defeating security mechanisms.

9.14.7.3 Test Documentation. The organization/activity tasked by the DAA to conduct Certification Testing will be responsible for developing a Certification Test Plan and Certification Test Procedures. At the conclusion of Certification Testing a Test Results Report will be developed detailing the results of the security mechanisms functional testing.

9.14.7.3 Design Documentation. The CAISI software developers will deliver documentation detailing the CAISI software and hardware architecture. Though this documentation is intended to detail all aspects of the CAISI system, it will also cover those elements that form the Trusted Computing Base.

9.14.8 Personnel Security Training and Awareness Program. All personnel who manage, design, develop, maintain, or operate CAISI will undergo a training and awareness program consisting of:

a. An initial security training and awareness briefing tailored to CAISI discussing threat, vulnerabilities, risks, security objectives, their responsibilities, and security considerations applicable to personnel associated with CAISI.

b. Periodic security training and awareness, which may include self-paced or formal instruction, bulletins, posters, etc. Periodic security training and awareness does not need to be tailored to CAISI and will be the responsibility of the unit to which CAISI is fielded.

9.14.9 Software Development Security Measures. The software developers of CAISI will take appropriate safeguards during the development of CAISI to ensure the integrity of the code. These safeguards will include physical security controls over the source code, system and application program libraries, and a development environment commensurate with the sensitivity of the information that will ultimately be processed by CAISI. Backup copies will be made periodically of source code to facilitate continued operations in the event of damage, loss, or theft of the original. The master copy of the software must be safeguarded and not used for production operations.

9.15 Fielding Schedule. The initial fielding plan is to replace the CAISI-MT hardware previously fielded to Active Army, National Guard and US Army Reserve sites. Future fielding decisions concerning the total Army are to be determined. Anticipated fielding dates and locations are shown below. As soon as dates and locations are confirmed, the schedule will be published to all Gaining Commands.

9.16 Signed Materiel Fielding Agreements

Table 9.15-1 CAISI Fielding Schedule

LOCATION	UNIT	SSR	CBM	CCM	START	END
Ft. Carson (Test)	3rd ACR	6	12	12	16 Apr 02	26 Apr 02
Ft Lewis, WA	IBCT-2, 1st BDE, 25th INF DIV	2	12	37	15 Jul 02	22 Jul 02
Ft. Lewis, WA (Retrofit)	IBCT-1, 3rd BDE-2nd INF DIV	2	12	37	18 Sept 02	30 Sept 02
Ft. Lewis, WA	I Corps (troops)	7	49	200	TBD	TBD
Ft. Carson, CO	3rd ACR	2	17	57	TBD	TBD
Ft. Hood, TX	1st CAV DIV	7	72	240	10 Mar 03	2 Apr 03
Ft. Hood, TX	4th INF DIV	7	72	240	11 July 03	31 July 03
Ft. Hood, TX	13 COSCOM	7	53	269	9 Jan 03	31 Jan 03
Ft. Stewart / Ft. Benning, GA	3rd INF DIV	8	75	254	TBD	TBD
Ft. Bragg, NC	75th Ranger / 528th Maint.	2	10	33	31 Mar 03	TBD
Ft. Bragg, NC	82nd ABN DIV	6	45	144	17 Apr 03	TBD
Ft. Bragg, NC	XVIII ABN Corps (Troops)	14	95	412	12 May 03	TBD
Ft. Wainright, AK	IBCT-3, 172nd INF BDE	2	12	37	14 Jul 03	TBD
IBCT	IBCT 4, 5, 6	6	36	111	TBD	TBD
Ft. Campbell, KY	101st ABN DIV	7	53	157	24 Oct 02	1 Nov 02
Korea (EUSA) / Japan / Okinawa	JSA / 2nd INF DIV / Japan / Okinawa	11	81	270	TBD	TBD
Ft. Drum, NY	10th MTN DIV	6	36	112	TBD	TBD

LOCATION	UNIT	SS	CB	CC	START	END
Wurzburg, Germany / Italy	1st INF DIV	7	72	240	5 Jan 04	4 Feb 04
Wiesbaden, Germany	1st AR DIV	7	72	240	11 Feb 04	12 Mar 04
Heidelberg, Germany	V Corps (Troops)	7	53	269	15 Mar 04	5 Apr 04
Italy	173rd INF BDE (Separate)	2	17	57	7 Apr 04	16 Apr 04
Schofield Barracks, HI	25th INF DIV (-)	6	36	112	02 Aug 04	16 Aug 04
Ft. Eustis, VA (5)	7th Transportation Group	2	6	21	04 Oct 04	11 Oct 04
Ft. Irwin, CA	11th ACR	2	17	57	25 Oct 04	01 Nov 04
Ft. Lee, VA	School House	3	10	20	15 Nov 04	22 Nov 04
Reserves		50	450	1350	06 Dec 04	30 May 05
National Guard		75	675	2025	06 Jun 05	23 Feb 06

DEPARTMENT OF THE ARMY
H EADQUARTERS UNITED STATES ARMY FORCES COMMAND
1777 HARDEE AVENUE SW
FORT MCPHERSON GEORGIA. 30330-1062

-REPLY TO
ATTENTION OF

AFLG-SMS

DEC 1 2 2000

FOR Program Executive Office Standard Army Management Information Systems *(PEO* STAMIS), Program Operations Directorate, ATTN: Mr. Gary Wetterhall, 9350 Hall Road, Suite 216A, Fort Belvoir, VA 22060-5526

Subject: U.S. Army **Forces Command (FORSCOM) Material Fielding Agreement (MFA} for Legacy Standard** Army **Management Information Systems {STAMIS)**

1. This memorandum serves as the Material Fielding Agreement (MFA) between FORSCOM and PEO STAMIS to support a Full Materiel Release request for Legacy STAMIS systems that have been fielded within FORSCOM in accordance with their approved Basis of Issue Plans (BOIPs).

2. The following Legacy STAMIS are included *in* this MFA: ULLS-G, ULLS-A, ULLS-S4, ULLS-Flight Company, SPBS-R, SARSS-O, SAMS-l, SAMS-2, SAAS-MOD, DAMMS-R and CAISI.

3. Questions and concerns should be directed to Mr. Dennis Whitcomb, whitcomd@forscom.army.mil, DSN 367-6246, CML 404-464-6246; or Mr. Mike Borland, borlandm@forscom.army.mil, DSN 367-6022, CML 404-464-6022.

/Signed/
WILLIAM T. **COWAN**, JR.
Chief, Supply, Maintenance,
Services and Systems Division